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(54) Title: **NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES**

(57) Abstract: The present invention relates to novel ovarian related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "ovarian antigens", and the use of such ovarian antigens for detecting disorders of the ovaries and/or breast, particularly the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian associated nucleic acid molecules are provided encoding novel ovarian associated polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

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Nucleic Acids, Proteins, and Antibodies

[0001] This application refers to a "Sequence Listing" that is provided on electronic media in computer readable form pursuant to Administrative Instructions Section 801(a)(i). The Sequence Listing forms a part of this description pursuant to Rule 5.2 and Administrative Instructions Sections 801 to 806, and is hereby incorporated in its entirety.

[0002] The Sequence Listing is provided as an electronic file (PA133PCTSL.txt, 7,347,875 bytes in size, created on 07 June 2001) on four identical compact discs (CD-R), labeled "COPY 1," "COPY 2," "COPY 3," and "CRF." The Sequence Listing complies with Annex C of the Administrative Instructions, and may be viewed, for example, on an IBM-PC machine running the MS-Windows operating system by using the V viewer software, version 2000 (see World Wide Web URL: <http://www.fileviewer.com>).

Field of the Invention

[0003] The present invention relates to novel ovarian related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian

nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Background of the Invention

[0004] The female reproductive system is comprised of both external and internal organs. The external organs function in permitting sperm to enter the body and protecting the internal genital organs from infection and injury. The internal organs form a pathway (the genital tract) for reproduction, beginning at the ovaries, through the fallopian tubes (oviducts) and uterus, to the birth canal (vagina).

[0005] The sexual and reproductive functions in the female can be divided into two major phases: first, preparation of the body for conception, and second, the gestation and parturition. Gestation and parturition only occur if an ovum becomes fertilized. If fertilization does not occur, the reproductive system undergoes a cycle to ensure frequent readiness for conception and fertilization.

[0006] The complexity of the female reproductive system renders it susceptible to several diseases and disorders. In particular, the ovaries and breast are subject to diseases and/or disorders such as infections, hyperproliferative disorders, as well as regulatory and genetic abnormalities.

Disorders of the Ovary

[0007] A woman's ovaries are located on both sides of the uterus, below the opening of the fallopian tubes (tubes that extend from the uterus to the ovaries). In

addition to producing egg cells for reproduction, the ovaries produce estrogen and progesterone, which affect many of the female characteristics and reproductive functions.

[0008] Anovulation (the absence of egg release by the ovaries) is a serious condition leading to infertility. The exact etiology of anovulation, especially in women with otherwise normal menstrual cycles, is unclear, however several potential causes are under study, including: impaired follicular development (probably due to low or absent estrogen production or binding), normal follicular development with lack of egg release (probably due to progesterone deficiency), or insufficient production of gonadotropin-releasing hormone from the hypothalamus. Current treatments include clomiphene injections or hormonal therapy, although both can lead to serious side effects such as ovarian cancer and ovarian hyperstimulation syndrome.

[0009] Anovulation is also associated with polycystic ovary syndrome (also known as Stein-Leventhal syndrome). This syndrome is an endocrine disorder characterized by an elevated level of male hormones (androgens). Other than anovulation, symptoms include growth of male-patterned body hair (hirsutism), excessive acne, irregular or absent menses, excessive bleeding, and obesity. Usually, the ovaries appear enlarged and may contain many follicular cysts.

[0010] Ovarian cancer develops most often in women between the ages of 50 and 70. It is the third most common cancer of the female reproductive system, but more women die of ovarian cancers than of any other. Ovaries include a variety of cell types, each of which may give rise to a distinct type of cancer, including, but not limited to, ovarian epithelial cancer, ovarian germ cell tumors, ovarian papillary serous adenocarcinoma, ovarian mucinous adenocarcinoma, ovarian Krukenberg tumor, malignant mixed Mullerian tumors, and ovarian low malignant tumors.

[0011] Other disorders of the ovaries also include, but are not limited to, inflammatory disorders, such as oophoritis (e.g., caused by viral or bacterial infection), ovarian cysts, and autoimmune disorders (e.g., premature ovarian failure and autoimmune oophoritis).

Disorders of the Breast

[0012] The breast is comprised of different structures, each with its own specific function. One-third of the breast is comprised of fatty tissue. The other two-thirds is made

up of structural components called ducts and lobules. Milk is produced in the lobules and funneled through the ducts to the nipple. Disorders of the breast typically involve the formation of lesions within breast tissue. While many of these lesions are benign in nature, they may lead to cancer if left untreated.

[0013] Benign breast lesions include, for example, cysts, which are non-cancerous, fluid-filled sacs that form a mass within breast tissue. The cause of breast cysts is unknown, though injury may be involved, and their main symptom is pain. While considered harmless, a professional should drain cysts and the fluid examined because cancer of the cyst wall, although quite rare, is possible.

[0014] Other benign breast lesions include fibrous breast lumps (fibroadenomas), breast infection (mastitis), intraductal papilloma, and abscesses. Fibrous breast lumps are small, solid lumps of glandular tissue. These lumps usually appear in young women, often in teenagers, and are easy to remove. Intraductal papilloma are small lumps located within a milk duct, often causing inappropriate discharge from the nipple. Breast abscesses are collections of pus in breast tissue that develop from breast infections that go untreated.

[0015] Breast cancer is the most common cancer among women, other than skin cancer and is the second leading cause of cancer death in women, after lung cancer. The American Cancer Society predicts that there will be about 182,800 new cases of invasive breast cancer in the year 2000 among women in this country and about 40,800 deaths from the disease. Breast cancer also occurs among men, although much less often. It is generally believed that this malignancy arises from a multi step process involving mutations in a relatively small number of genes, perhaps 10 or less. These mutations result in significant changes in the growth and differentiation of breast tissue that allow it to grow independent of normal cellular controls, to metastasize, and to escape immune surveillance. The genetic heterogeneity of most breast cancers suggests that they arise by a variety of initiating events and that the characteristics of individual cancers are due to the collective pattern of genetic changes that accumulate.

[0016] The discovery of new human ovarian associated polynucleotides, the polypeptides encoded by them, and antibodies that immunospecifically bind these polypeptides, satisfies a need in the art by providing new compositions which are useful in

the diagnosis, treatment, prevention and/or prognosis of disorders of the ovaries and/or breast, including, but not limited to, neoplastic disorders (e.g., ovarian Krukenberg tumor, malignant mixed Mullerian tumors, and/or as described under "Hyperproliferative Disorders" below), infectious diseases (e.g., mastitis, oophoritis, and/or as described under "Infectious Diseases" below), and inflammatory diseases (e.g., abscesses and/or as described under "Immune Disorders" below) and as described in "Reproductive System Disorders" below.

Summary of the Invention

[0017] The present invention relates to novel ovarian related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Detailed Description

Tables

[0018] Table 1 summarizes some of the polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) and contig nucleotide sequence identifier (SEQ ID NO:X)) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA plasmid related to each ovarian associated contig sequence disclosed in Table 1. The second column provides a unique contig identifier, "Contig ID:" for each of the contig sequences disclosed in Table 1. The third column provides the sequence identifier, "SEQ ID NO:X", for each of the contig polynucleotide sequences disclosed in Table 1. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:X that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1 as SEQ ID NO:Y (column 5). Column 6 lists residues comprising predicted epitopes contained in the polypeptides encoded by each of the preferred ORFs (SEQ ID NO:Y). Identification of potential immunogenic regions was performed according to the method of Jameson and Wolf (CABIOS, 4:181-186 (1988)); specifically, the Genetics Computer Group (GCG) implementation of this algorithm, embodied in the program PEPTIDESTRUCTURE (Wisconsin Package v10.0, Genetics Computer Group (GCG), Madison, Wisc.). This method returns a measure of the probability that a given residue is found on the surface of the protein. Regions where the antigenic index score is greater than 0.9 over at least 6 amino acids are indicated in Table 1 as "Predicted Epitopes." In particular embodiments, ovarian associated polypeptides of the invention comprise, or alternatively consist of, one, two, three, four, five or more of the predicted epitopes described in Table 1. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly. Column 7, "Tissue Distribution" shows the expression profile of tissue, cells, and/or cell line libraries which express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier

code corresponding to the code and description provided in Table 4. Expression of these polynucleotides was not observed in the other tissues and/or cell libraries tested. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon), represents the number of times a sequence corresponding to the reference polynucleotide sequence (e.g., SEQ ID NO:X) was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. Column 8, "Cytologic Band," provides the chromosomal location of polynucleotides corresponding to SEQ ID NO:X. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Given a presumptive chromosomal location, disease locus association was determined by comparison with the Morbid Map, derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIM™. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000. World

Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>). If the putative chromosomal location of the Query overlapped with the chromosomal location of a Morbid Map entry, an OMIM identification number is provided in column 9 labeled "OMIM Disease Reference(s)". A key to the OMIM reference identification numbers is provided in Table 5.

[0019] Table 2 summarizes homology and features of some of the polypeptides of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", corresponding to a cDNA disclosed in Table 1. The second column provides the unique contig identifier, "Contig ID:" corresponding to contigs in Table 1 and allowing for correlation with the information in Table 1. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. Comparisons were made between polypeptides encoded by the polynucleotides of the invention and either a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFAM") as further described below. The fifth column provides a description of PFAM/NR hits having significant matches to a polypeptide of the invention. Column six provides the accession number of the PFAM/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Columns 8 and 9, "NT From" and "NT To" respectively, delineate the polynucleotides in "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth column. In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, an amino acid sequence encoded by the polynucleotides in SEQ ID NO:X as delineated in columns 8 and 9, or fragments or variants thereof.

[0020] Table 3 provides polynucleotide sequences that may be disclaimed according to certain embodiments of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to ovarian associated contig sequences disclosed in Table 1. The second column provides the sequence identifier, "SEQ ID NO:X", for contig polynucleotide sequences disclosed in Table 1. The third column provides the unique contig identifier, "Contig ID", for contigs disclosed in Table 1. The fourth column provides a unique integer 'a' where 'a' is any integer between 1 and

the final nucleotide minus 15 of SEQ ID NO:X, represented as "Range of a", and the fifth column provides a unique integer 'b' where 'b' is any integer between 15 and the final nucleotide of SEQ ID NO:X, represented as "Range of b", where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. For each of the polynucleotides shown as SEQ ID NO:X, the uniquely defined integers can be substituted into the general formula of a-b, and used to describe polynucleotides which may be preferably excluded from the invention. In certain embodiments, preferably excluded from the polynucleotides of the invention (including polynucleotide fragments and variants as described herein and diagnostic and/or therapeutic uses based on these polynucleotides) are at least one, two, three, four, five, ten, or more of the polynucleotide sequence(s) having the accession number(s) disclosed in the sixth column of this Table. In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table.

[0021] Table 4 provides a key to the tissue/cell source identifier code disclosed in Table 1, column 7. Column 1 provides the key to the tissue/cell source identifier code disclosed in Table 1, Column 7. Columns 2-5 provide a description of the tissue or cell source. Codes corresponding to diseased tissues are indicated in column 6 with the word "disease". The use of the word "disease" in column 6 is non-limiting. The tissue or cell source may be specific (e.g. a neoplasm), or may be disease-associated (e.g., a tissue sample from a normal portion of a diseased organ). Furthermore, tissues and/or cells lacking the "disease" designation may still be derived from sources directly or indirectly involved in a disease state or disorder, and therefore may have a further utility in that disease state or disorder. In numerous cases where the tissue/cell source is a library, column 7 identifies the vector used to generate the library.

[0022] Table 5 provides a key to the OMIMTM reference identification numbers disclosed in Table 1, column 9. OMIM reference identification numbers (Column 1) were derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIMTM. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine, (Bethesda, MD) 2000. World Wide Web URL:

<http://www.ncbi.nlm.nih.gov/omim/>). Column 2 provides diseases associated with the cytologic band disclosed in Table 1, column 8, as determined from the Morbid Map database.

[0023] Table 6 summarizes ATCC Deposits, Deposit dates, and ATCC designation numbers of deposits made with the ATCC in connection with the present application.

[0024] Table 7 shows the cDNA libraries sequenced, tissue source description, vector information and ATCC designation numbers relating to these cDNA libraries.

Definitions

[0025] The following definitions are provided to facilitate understanding of certain terms used throughout this specification.

[0026] In the present invention, "isolated" refers to material removed from its original environment (e.g., the natural environment if it is naturally occurring), and thus is altered "by the hand of man" from its natural state. For example, an isolated polynucleotide could be part of a vector or a composition of matter, or could be contained within a cell, and still be "isolated" because that vector, composition of matter, or particular cell is not the original environment of the polynucleotide. The term "isolated" does not refer to genomic or cDNA libraries, whole cell total or mRNA preparations, genomic DNA preparations (including those separated by electrophoresis and transferred onto blots), sheared whole cell genomic DNA preparations or other compositions where the art demonstrates no distinguishing features of the polynucleotide sequences of the present invention.

[0027] As used herein, a "polynucleotide" refers to a molecule having a nucleic acid sequence encoding SEQ ID NO:Y or a fragment or variant thereof; a nucleic acid sequence contained in SEQ ID NO:X (as described in column 3 of Table 1) or the complement thereof; or a cDNA sequence contained in Clone ID NO:Z (as described in column 1 of Table 1 and contained within a library deposited with the ATCC). For example, the polynucleotide can contain the nucleotide sequence of the full length cDNA sequence, including the 5' and 3' untranslated sequences, the coding region, as well as fragments, epitopes, domains, and variants of the nucleic acid sequence. Moreover, as used herein, a "polypeptide" refers to a molecule having an amino acid sequence encoded by a polynucleotide of the invention as broadly defined (obviously excluding poly-

Phenylalanine or poly-Lysine peptide sequences which result from translation of a polyA tail of a sequence corresponding to a cDNA).

[0028] As used herein, an "ovarian antigen" refers collectively to any polynucleotide disclosed herein (e.g., a nucleic acid sequence contained in SEQ ID NO:X or the complement thereof, or cDNA sequence contained in Clone ID NO:Z, (e.g., a nucleic acid sequence contained in SEQ ID NO:X or the complement thereof, or cDNA sequence contained in Clone ID NO:Z, and fragments or variants thereof as described herein) or any polypeptide disclosed herein (e.g., an amino acid sequence contained in SEQ ID NO:Y, an amino acid sequence encoded by SEQ ID NO:X, or the complement thereof, an amino acid sequence encoded by the cDNA sequence contained in Clone ID NO:Z, and fragments or variants thereof as described herein). These ovarian antigens have been determined to be predominantly expressed in ovarian tissues, including normal or diseased tissues (as shown in Table 1 column 7 and Table 4).

[0029] In the present invention, "SEQ ID NO:X" was often generated by overlapping sequences contained in multiple clones (contig analysis). A representative clone containing all or most of the sequence for SEQ ID NO:X is deposited at Human Genome Sciences, Inc. (HGS) in a catalogued and archived library. As shown, for example, in column 1 of Table 1, each clone is identified by a cDNA Clone ID (identifier generally referred to herein as Clone ID NO:Z). Each Clone ID is unique to an individual clone and the Clone ID is all the information needed to retrieve a given clone from the HGS library. Furthermore, certain clones disclosed in this application have been deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985. In addition to the individual cDNA clone deposits, most of the cDNA libraries from which the clones were derived were deposited at the American Type Culture Collection (hereinafter "ATCC"). Table 7 provides a list of the deposited cDNA libraries. One can use the Clone ID NO:Z to determine the library source by reference to Tables 6 and 7. Table 7 lists the deposited cDNA libraries by name and links each library to an ATCC Deposit. Library names contain four characters, for example, "HTWE." The name of a cDNA clone (Clone ID NO:Z) isolated from that library begins with the same four characters, for example "HTWEP07". As mentioned below, Table 1 correlates the Clone ID NO:Z names with SEQ ID NO:X. Thus, starting with an SEQ ID NO:X, one can use Tables 1A, 6 and 7 to determine the corresponding Clone ID NO:Z, which library it came

from and which ATCC deposit the library is contained in. Furthermore, it is possible to retrieve a given cDNA clone from the source library by techniques known in the art and described elsewhere herein. The ATCC is located at 10801 University Boulevard, Manassas, Virginia 20110-2209, USA. The ATCC deposits were made pursuant to the terms of the Budapest Treaty on the international recognition of the deposit of microorganisms for the purposes of patent procedure.

[0030] In specific embodiments, the polynucleotides of the invention are at least 15, at least 30, at least 50, at least 100, at least 125, at least 500, or at least 1000 continuous nucleotides but are less than or equal to 300 kb, 200 kb, 100 kb, 50 kb, 15 kb, 10 kb, 7.5 kb, 5 kb, 2.5 kb, 2.0 kb, or 1 kb, in length. In a further embodiment, polynucleotides of the invention comprise a portion of the coding sequences, as disclosed herein, but do not comprise all or a portion of any intron. In another embodiment, the polynucleotides comprising coding sequences do not contain coding sequences of a genomic flanking gene (i.e., 5' or 3' to the gene of interest in the genome). In other embodiments, the polynucleotides of the invention do not contain the coding sequence of more than 1000, 500, 250, 100, 50, 25, 20, 15, 10, 5, 4, 3, 2, or 1 genomic flanking gene(s).

[0031] A "polynucleotide" of the present invention also includes those polynucleotides capable of hybridizing, under stringent hybridization conditions, to sequences contained in SEQ ID NO:X, or the complement thereof (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments described herein), the polynucleotide sequence delineated in columns 8 and 9 of Table 2 or the complement thereof, and/or cDNA sequences contained in Clone ID NO:Z (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments, and/or the cDNA clone within the pool of cDNA clones deposited with the ATCC, described herein). "Stringent hybridization conditions" refers to an overnight incubation at 42 degree C in a solution comprising 50% formamide, 5x SSC (750 mM NaCl, 75 mM trisodium citrate), 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA, followed by washing the filters in 0.1x SSC at about 65 degree C.

[0032] Also contemplated are nucleic acid molecules that hybridize to the polynucleotides of the present invention at lower stringency hybridization conditions.

Changes in the stringency of hybridization and signal detection are primarily accomplished through the manipulation of formamide concentration (lower percentages of formamide result in lowered stringency), salt conditions, or temperature. For example, lower stringency conditions include an overnight incubation at 37 degree C in a solution comprising 6X SSPE (20X SSPE = 3M NaCl; 0.2M NaH₂PO₄; 0.02M EDTA, pH 7.4), 0.5% SDS, 30% formamide, 100 ug/ml salmon sperm blocking DNA; followed by washes at 50 degree C with 1XSSPE, 0.1% SDS. In addition, to achieve even lower stringency, washes performed following stringent hybridization can be done at higher salt concentrations (e.g. 5X SSC).

[0033] Note that variations in the above conditions may be accomplished through the inclusion and/or substitution of alternate blocking reagents used to suppress background in hybridization experiments. Typical blocking reagents include Denhardt's reagent, BLOTTO, heparin, denatured salmon sperm DNA, and commercially available proprietary formulations. The inclusion of specific blocking reagents may require modification of the hybridization conditions described above, due to problems with compatibility.

[0034] Of course, a polynucleotide which hybridizes only to polyA⁺ sequences (such as any 3' terminal polyA⁺ tract of a cDNA shown in the sequence listing), or to a complementary stretch of T (or U) residues, would not be included in the definition of "polynucleotide," since such a polynucleotide would hybridize to any nucleic acid molecule containing a poly (A) stretch or the complement thereof (e.g., practically any double-stranded cDNA clone generated using oligo dT as a primer).

[0035] The polynucleotide of the present invention can be composed of any polyribonucleotide or polydeoxribonucleotide, which may be unmodified RNA or DNA or modified RNA or DNA. For example, polynucleotides can be composed of single- and double-stranded DNA, DNA that is a mixture of single- and double-stranded regions, single- and double-stranded RNA, and RNA that is mixture of single- and double-stranded regions, hybrid molecules comprising DNA and RNA that may be single-stranded or, more typically, double-stranded or a mixture of single- and double-stranded regions. In addition, the polynucleotide can be composed of triple-stranded regions comprising RNA or DNA or both RNA and DNA. A polynucleotide may also contain one or more modified bases or DNA or RNA backbones modified for stability or for other reasons.

"Modified" bases include, for example, tritylated bases and unusual bases such as inosine. A variety of modifications can be made to DNA and RNA; thus, "polynucleotide" embraces chemically, enzymatically, or metabolically modified forms.

[0036] The polypeptide of the present invention can be composed of amino acids joined to each other by peptide bonds or modified peptide bonds, i.e., peptide isosteres, and may contain amino acids other than the 20 gene-encoded amino acids. The polypeptides may be modified by either natural processes, such as posttranslational processing, or by chemical modification techniques which are well known in the art. Such modifications are well described in basic texts and in more detailed monographs, as well as in a voluminous research literature. Modifications can occur anywhere in a polypeptide, including the peptide backbone, the amino acid side-chains and the amino or carboxyl termini. It will be appreciated that the same type of modification may be present in the same or varying degrees at several sites in a given polypeptide. Also, a given polypeptide may contain many types of modifications. Polypeptides may be branched, for example, as a result of ubiquitination, and they may be cyclic, with or without branching. Cyclic, branched, and branched cyclic polypeptides may result from posttranslation natural processes or may be made by synthetic methods. Modifications include acetylation, acylation, ADP-ribosylation, amidation, covalent attachment of flavin, covalent attachment of a heme moiety, covalent attachment of a nucleotide or nucleotide derivative, covalent attachment of a lipid or lipid derivative, covalent attachment of phosphatidylinositol, cross-linking, cyclization, disulfide bond formation, demethylation, formation of covalent cross-links, formation of cysteine, formation of pyroglutamate, formylation, gamma-carboxylation, glycosylation, GPI anchor formation, hydroxylation, iodination, methylation, myristoylation, oxidation, pegylation, proteolytic processing, phosphorylation, prenylation, racemization, selenoylation, sulfation, transfer-RNA mediated addition of amino acids to proteins such as arginylation, and ubiquitination. (See, for instance, PROTEINS - STRUCTURE AND MOLECULAR PROPERTIES, 2nd Ed., T. E. Creighton, W. H. Freeman and Company, New York (1993); POSTTRANSLATIONAL COVALENT MODIFICATION OF PROTEINS, B. C. Johnson, Ed., Academic Press, New York, pgs. 1-12 (1983); Seifter et al., Meth. Enzymol. 182:626-646 (1990); Rattan et al., Ann. N.Y. Acad. Sci. 663:48-62 (1992).)

[0037] "SEQ ID NO:X" refers to a polynucleotide sequence described, for example, in Tables 1A or 2, while "SEQ ID NO:Y" refers to a polypeptide sequence described in column 5 of Table 1. SEQ ID NO:X is identified by an integer specified in column 3 of Table 1. The polypeptide sequence SEQ ID NO:Y is a translated open reading frame (ORF) encoded by polynucleotide SEQ ID NO:X. "Clone ID NO:Z" refers to a cDNA clone described in column 1 of Table 1.

[0038] "A polypeptide having biological activity" refers to a polypeptide exhibiting activity similar to, but not necessarily identical to, an activity of a polypeptide of the present invention, including mature forms, as measured in a particular biological assay, with or without dose dependency. In the case where dose dependency does exist, it need not be identical to that of the polypeptide, but rather substantially similar to the dose-dependence in a given activity as compared to the polypeptide of the present invention (i.e., the candidate polypeptide will exhibit greater activity or not more than about 25-fold less and, preferably, not more than about tenfold less activity, and most preferably, not more than about three-fold less activity relative to the polypeptide of the present invention).

[0039] Table 1 summarizes some of the polynucleotides encompassed by the invention (including contig sequences (SEQ ID NO:X) and clones (Clone ID NO:Z) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby.

Polynucleotides and Polypeptides

TABLE 1

Clone ID NO: Z	Contig ID:	SEQ ID NO: X	ORF (From-To)	AA SEQ ID NO: Y	Predicted Epitopes	Tissue Distribution Library code: count (see Table IV for Library Codes)	Cytologic Band	OMIM Disease Reference(s):
HOVCD34	396327	11	158 - 328	2186		H0428: 2		
HEBGD58	498281	12	3 - 107	2187	His-1 to Gly-19, Gly-29 to Tyr-35.	L0744: 5, L0758: 5, L0766: 4, L9803: 4, L0439: 4, L0759: 4, H0657: 3, H0341: 3, L0794: 3, H0648: 3, L0747: 3, L0752: 3, S0422: 2, L0598: 2, L0770: 2, L0809: 2, H0696: 2, L0742: 2, L0755: 2, H0716: 1, S0116: 1, H0638: 1, S0444: 1, S0360: 1, H0637: 1, H0580: 1, S0007: 1, L0586: 1, H0156: 1, H0599: 1, L0022: 1, H0042: 1, H0318: 1, H0327: 1, H0328: 1, H0615: 1, L0483: 1, S0112: 1, T0042: 1, H0560: 1, H0625: 1, L0769: 1, L0800: 1, L0764: 1, L0804: 1, L0375: 1,		

HETCD42	533532	13	18 - 947	2188	Glu-29 to Lys-37, Lys-110 to Ile-118, Arg-126 to Cys-135, Lys-157 to Gly-163, Gln-188 to Trp-201, Glu-269 to Thr-278.	L0805: 1, L0776: 1, L0791: 1, L0792: 1, L4501: 1, L0666: 1, L0663: 1, H0144: 1, L0352: 1, H0547: 1, H0519: 1, H0659: 1, H0660: 1, S0152: 1, H0521: 1, H0522: 1, S0028: 1, L0749: 1, L0756: 1, L0753: 1, L0757: 1, H0445: 1, L0588: 1, L0592: 1 and S0192: 1.	L0805: 1, L0776: 1, L0791: 1, L0792: 1, L4501: 1, L0666: 1, L0663: 1, H0144: 1, L0352: 1, H0547: 1, H0519: 1, H0659: 1, H0660: 1, S0152: 1, H0521: 1, H0522: 1, S0028: 1, L0749: 1, L0756: 1, L0753: 1, L0757: 1, H0445: 1, L0588: 1, L0592: 1 and S0192: 1.	7q31.2- q31.3	150240, 164160, 180105, 190900, 222800, 246900, 602421, 602421, 602421
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					H0156: 2, H0036: 2, H0266: 2, H0179: 2, H0328: 2, H0615: 2, H0039: 2, H0622: 2, H0031: 2, H0090: 2, H0412: 2, H0623: 2, H0560: 2, H0625: 2, S0422: 2, L0770: 2, L0662: 2, L0768: 2, L0649: 2, L0803: 2, H0684: 2, S0152: 2, S0028: 2, S0206: 2, L0752: 2, L0757: 2, L0759: 2, S0031: 2, S0434: 2, L0362: 2, S0026: 2, S0196: 2, H0170: 1, H0556: 1, S0342: 1, S0134: 1, S0212: 1, H0661: 1, S0418: 1, S0420: 1, S0354: 1, S0358: 1, S0444: 1, H0580: 1, S0045: 1, S0132: 1, H0393: 1, L0717: 1, S0222: 1, H0614: 1, H0357: 1, H0587: 1, H0632: 1, H0270: 1, T0114: 1, H0250: 1, S0280: 1, S0474: 1, H0581: 1, H0374: 1,
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	H0052: 1, H0232: 1, H0050: 1, H0024: 1, H0014: 1, H0373: 1, H0051: 1, S0051: 1, H0355: 1, H0375: 1, H0594: 1, S0214: 1, L0483: 1, H0553: 1, H0644: 1, H0032: 1, H0212: 1, S0036: 1, H0038: 1, H0264: 1, H0413: 1, H0056: 1, T0042: 1, S0466: 1, H0509: 1, H0207: 1, H0641: 1, H0647: 1, S0344: 1, L0638: 1, L0637: 1, L0794: 1, L0804: 1, L0805: 1, L0656: 1, L0635: 1, L0528: 1, L0664: 1, L0665: 1, H0520: 1, H0519: 1, H0593: 1, H0435: 1, H0659: 1, H0670: 1, H0672: 1, H0651: 1, S0328: 1, S0330: 1, L0602: 1, H0518: 1, S0176: 1, H0555: 1, S0390: 1, L0750: 1, S0260: 1, H0595: 1, L0599: 1, L0608: 1, H0668: 1,	
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							H0653: 1, S0192: 1, H0543: 1 and : 1.			
HTXKC18	535854	14	387 - 115	2189		Ser-57 to Gly-65, Gly-80 to His-86.	AR039: 65, AR096: 37, AR104: 37, AR089: 32, AR053: 27, AR052: 25, AR033: 22, AR060: 21, AR055: 21, AR061: 11			
							H0556: 1			
HLDRK20	553765	15	48 - 1214	2190		Thr-8 to Thr-19, Arg-108 to Ser-115, Ser-117 to Arg-128, Phe-143 to Tyr-155, Leu-171 to Arg-177, Asn-182 to Gly-187, Gly-195 to Ser-200, Arg-232 to Thr-248, Pro-287 to Arg-293.	L0665: 45, L0581: 42, H0509: 32, H0393: 15, H0574: 15, H0510: 15, L0362: 14, L0666: 11, H0658: 10, L0748: 10, H0014: 9, S0410: 8, H0331: 8, H0674: 8, S0438: 8, L0657: 8, H0689: 8, H0039: 7, L0659: 7, H0670: 7, S0044: 7, H0663: 6, H0622: 5, H0641: 5, S0360: 4, H0046: 4, H0246: 4, H0355: 4, H0169: 4, H0648: 4, L0749: 4, S0318: 3, L0662: 3, L0768: 3, L0775: 3, L0664: 3, H0682: 3, L0751: 3, H0506: 3, S0132: 2, H0441: 2, H0632: 2,	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550,	

H2MBD33	558474	16	138 - 290	2191	Ser-13 to Asp-18.	S0434: 2, L0601: 2, H0624: 1, L0615: 1, H0662: 1, S0356: 1, L0717: 1, H0549: 1, H0431: 1, H0586: 1, H0643: 1, H0575: 1, H0569: 1, H0057: 1, H0015: 1, H0687: 1, S0003: 1, S0214: 1, H0688: 1, H0553: 1, H0124: 1, H0059: 1, L0564: 1, L0065: 1, S0440: 1, L0638: 1, L0646: 1, L0764: 1, L0771: 1, L0386: 1, L0375: 1, L0525: 1, L0378: 1, L0776: 1, L0634: 1, L0544: 1, H0144: 1, S0374: 1, H0693: 1, S0310: 1, H0593: 1, S0126: 1, H0690: 1, H0684: 1, H0435: 1, H0660: 1, H0666: 1, S0328: 1, H0521: 1, S0406: 1, H0555: 1, S0027: 1, L0750: 1, L0755: 1, S0031: 1, S0192: 1, S0276: 1 and S0196: 1.	600202, 600261, 601868, 602280, 602475
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									T0109: 1, H0428: 1, H0264: 1, L0764: 1, L0665: 1 and H0648: 1.			
HSYBX61	558708	17	3 - 515	2192	Arg-13 to Ala-20, Pro-27 to Arg-32, Lys-37 to Glu-62.				H0428: 2, L0757: 2, H0170: 1, S0007: 1, H0028: 1, S0250: 1, H0252: 1, H0328: 1, H0124: 1, H0551: 1, L0439: 1 and L0750: 1.	18q12.1	176300, 176300, 176300, 176300	
HELHC03	562745	18	623 - 1018	2193	Pro-105 to Trp-117.				AR089: 5, AR096: 4, AR060: 3, AR104: 3, AR061: 2, AR055: 2, AR033: 1, AR053: 1, AR039: 0 H0615: 2, H0346: 1, S0045: 1, H0156: 1, H0659: 1, L0748: 1 and H0444: 1.			
HOFMP70	585385	19	99 - 347	2194					H0415: 3	12q24.2- q24.3	100650, 100650, 142410, 142410, 142410, 160781, 181405	
HSKNZ25	585675	20	357 - 641	2195	Gly-1 to Ala-9, Pro-42 to Ser-56, Leu-60 to Gly-67, Ala-86 to Asp-95.				S3012: 1			
HDPEK39	588869	21	1 - 720	2196	Pro-14 to Ser-19,				H0521: 4, H0415: 1	16p11.2	147781,	

					Glu-55 to Phe-60, Asp-93 to Ser-98, Thr-138 to Tyr-144, Asn-155 to Phe-163, Arg-168 to Ser-175, Gln-205 to Lys-210, Phe-226 to Thr-233.	and H0522: 1.			172471, 182381
HL1AB07	638220	22	2 - 514.	2197	Asn-18 to Arg-24, Arg-30 to Tyr-35, Glu-43 to Asp-51, Glu-56 to Gly-66, Leu-101 to Lys-107, Ala-156 to His-171.	L0747: 15, L0742: 12, L0748: 12, L0752: 12, L0757: 9, L0731: 8, L0754: 7, S0144: 6, L0755: 6, S0356: 5, S0406: 5, L0740: 5, H0046: 4, L0764: 4, H0543: 4, H0250: 3, H0040: 3, L0761: 3, L0646: 3, L0774: 3, L0806: 3, L0751: 3, L0745: 3, L0753: 3, L0759: 3, S0212: 2, H0661: 2, S0360: 2, S0280: 2, H0014: 2, H0039: 2, S0036: 2, H0163: 2, L0768: 2, L0775: 2, L0776: 2, L0379: 2, L0783: 2, L0809: 2, H0702: 2, S0126: 2, H0689: 2, H0658: 2, H0672: 2, L0439: 2, L0750: 2,	7q36	142335, 152427, 163729, 176450, 190605, 600510, 600725	

L0756: 2, L0758: 2, L0605: 2, L0590: 2, S0011: 2, H0171: 1, H0556: 1, T0002: 1, S0040: 1, S0134: 1, S0218: 1, H0657: 1, H0341: 1, H0484: 1, H0306: 1, H0305: 1, H0125: 1, S0442: 1, S0358: 1, S0132: 1, H0351: 1, H0586: 1, H0574: 1, H0486: 1, H0013: 1, H0635: 1, H0575: 1, H0318: 1, H0052: 1, H0597: 1, H0041: 1, H0050: 1, L0163: 1, S0388: 1, S0051: 1, H0356: 1, H0266: 1, H0687: 1, S0312: 1, S0003: 1, H0252: 1, T0006: 1, L0142: 1, H0313: 1, L0055: 1, H0032: 1, H0169: 1, H0038: 1, T0041: 1, S0306: 1, S0438: 1, H0130: 1, H0641: 1, H0647: 1, S0344: 1, S0210: 1, L0763: 1, L0770: 1, L0769: 1, L0372: 1,							
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HHGAS83	654868	23	115 - 393	2198				L0642: 1, L0645: 1, L0771: 1, L0648: 1, L0662: 1, L0364: 1, L0375: 1, L0655: 1, L0807: 1, L0657: 1, L0659: 1, L0532: 1, L0666: 1, L0664: 1, L0665: 1, H0144: 1, H0701: 1, H0711: 1, S0380: 1, H0521: 1, S0404: 1, S0206: 1, L0749: 1, L0777: 1, H0445: 1, L0599: 1, S0276: 1, H0423: 1 and H0506: 1.		
								L0744: 11, S0007: 10, H0617: 10, L0747: 9, H0673: 8, H0597: 6, L0809: 6, H0683: 6, L0748: 6, L0754: 6, L0731: 6, L0622: 5, L0542: 5, L0755: 5, H0306: 4, H0402: 4, H0150: 4, H0188: 4, L0775: 4, L0751: 4, H0170: 3, H0255: 3, S0278: 3, T0006: 3, H0674: 3, L0774: 3, L0740: 3, L0745: 3, H0352: 3, H0657: 2,	17	

	L0785: 2, H0661: 2, S0376: 2, S0360: 2, H0637: 2, H0333: 2, H0486: 2, H0309: 2, H0545: 2, H0123: 2, H0594: 2, H0032: 2, H0169: 2, S0142: 2, L0767: 2, L0776: 2, L0655: 2, L0529: 2, L0530: 2, L0666: 2, L0663: 2, L0664: 2, H0682: 2, L0750: 2, L0753: 2, L0757: 2, L0759: 2, L0588: 2, L0361: 2, S0114: 1, T0049: 1, S0134: 1, H0254: 1, S0358: 1, H0580: 1, H0339: 1, S0046: 1, S0140: 1, S6026: 1, S0300: 1, S6022: 1, H0441: 1, H0455: 1, H0643: 1, T0060: 1, L0021: 1, H0042: 1, H0618: 1, H0253: 1, N0011: 1, S0049: 1, H0327: 1, H0530: 1, H0546: 1, H0086: 1, H0009: 1, H0081: 1, H0050: 1, H0620: 1, H0024: 1,					
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	H0057: 1, H0373: 1, S0051: 1, H0071: 1, H0687: 1, S0003: 1, S0214: 1, H0417: 1, H0031: 1, H0553: 1, H0111: 1, H0181: 1, H0606: 1, H0038: 1, H0616: 1, H0063: 1, H0087: 1, H0412: 1, H0059: 1, T0069: 1, T0004: 1, L0564: 1, S0440: 1, S0144: 1, S0344: 1, S0208: 1, L0598: 1, L0520: 1, L0763: 1, L0371: 1, L0770: 1, L0667: 1, L0764: 1, L0765: 1, L0771: 1, L0662: 1, L0375: 1, L0376: 1, L0378: 1, L0806: 1, L0658: 1, L0659: 1, L0518: 1, L0783: 1, L0788: 1, S0053: 1, H0691: 1, H0519: 1, S0126: 1, H0689: 1, H0660: 1, S0330: 1, H0696: 1, S0404: 1, H0576: 1, S3014: 1, S0206: 1, L0742: 1, L0743: 1, L0749: 1,					
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								L0752: 1, H0445: 1, L0589: 1, L0592: 1, L0608: 1, H0422: 1, H0008: 1 and H0293: 1.			
HTSGU37	704405	24	3 - 515	2199	Ile-1 to Thr-10, Pro-66 to Gly-77, Asp-85 to Gly-116.			AR089: 7, AR060: 6, AR096: 5, AR104: 3, AR055: 3, AR061: 2 L0746: 2, H0592: 1, H0087: 1, L4501: 1, L0665: 1 and L0758: 1.	1p33-p32	120260, 120950, 120960, 138140, 178300, 187040, 246450, 600101, 600650, 600650, 600722, 600722	
H2LAN34	705692	25	2 - 211	2200				T0115: 1, L0662: 1, L0766: 1, L0659: 1, L0809: 1, L0748: 1 and H0444: 1.			
HPMBZ40	711500	26	402 - 590	2201	Gly-13 to Val-36.				2		
HLYPE52	732342	27	2 - 721	2202					16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850,	

								141850, 156850, 186580, 191092, 600140, 600273, 601313, 601785
HTTEC47	745343	28	329 - 433	2203			AR096: 3, AR053: 2, AR060: 2, AR089: 2, AR033: 1, AR061: 1, AR055: 1, AR104: 0, AR039: 0 L0766: 2, S0354: 1, H0135: 1 and H0040: 1.	
HOFMO90	746416	29	113 - 391	2204	Arg-6 to Leu-12, Tyr-18 to Asp-25.	6p21.3		106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000,

									222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475	
HCHND34	762806	30	99 - 164	2205				AR055: 937, AR033: 824, AR061: 791, AR104: 733, AR060: 647, AR053: 378, AR089: 278, AR039: 203, AR096: 149 H0484: 1	17p13.3	113721, 247200, 600059, 601545
HAMGI86	785328	31	388 - 609	2206				L0740: 2, S0356: 1, H0040: 1, H0616: 1 and H0560: 1.	3q23	106165, 110100, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 203500, 276902, 601199,

HLWCN67	794213	32	326 - 691	2207	Tyr-1 to Trp-9, Thr-44 to Leu-49.	L0766: 7, L0794: 6, L0758: 6, L0665: 4, L0439: 4, L0779: 4, H0590: 3, H0328: 3, L0598: 3, L0763: 3, L0666: 3, H0648: 3, L0754: 3, L0362: 3, H0506: 3, H0657: 2, H0661: 2, S0438: 2, L0646: 2, L0803: 2, L0375: 2, L0806: 2, L0809: 2, L0438: 2, L0744: 2, L0740: 2, L0747: 2, L0756: 2, L0731: 2, S0434: 2, L0589: 2, H0713: 1, S0114: 1, H0583: 1, H0255: 1, H0669: 1, H0663: 1, S0222: 1, H0497: 1, L0021: 1, L0022: 1, H0036: 1, H0052: 1, L0163: 1, H0239: 1, H0179: 1, H0615: 1, H0092: 1, H0553: 1, H0163: 1, H0038: 1, H0100: 1, S0440: 1, S0422: 1,		601199, 601199, 601682
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								S0426: 1, UNKWN: 1, L5575: 1, L0644: 1, L0764: 1, L0662: 1, L0651: 1, L0653: 1, L0655: 1, L0661: 1, L0657: 1, L0526: 1, L0783: 1, L0793: 1, L0664: 1, S0374: 1, H0682: 1, H0658: 1, S0328: 1, H0539: 1, S0454: 1, S0406: 1, S0028: 1, L0750: 1, L0752: 1, L0759: 1, S0260: 1, H0445: 1, L0596: 1 and L0597: 1.			
HOFAC09	806819	33	866 - 3	2208				H0415: 3 and H0414: 2.	12		
HRDEL61	824886	34	630 - 824	2209	Lys-1 to Trp-7, Pro-29 to His-41, Thr-48 to Arg-65.			H0124: 1			
HDPOR60	828176	35	2 - 1924	2210	Gln-35 to Ser-43, Thr-52 to Cys-57, Glu-70 to Lys-79, Trp-121 to Lys-126, Ser-152 to Ser-162, Ser-183 to Phe-191, Val-206 to Thr-213, Ile-217 to Asn-222, Arg-237 to Lys-246, Thr-279 to Cys-285,			AR052: 3, AR089: 2, AR039: 2, AR055: 2, AR033: 2, AR053: 2, AR060: 2, AR096: 1, AR061: 1, AR104: 1 H0651: 8, L0744: 7, L0748: 6, H0620: 4, S0360: 3, S0142: 3, L0755: 3, H0638: 2, H0052: 2, H0123: 2,			

His-336 to Leu-341,	H0083: 2, H0328: 2,
Pro-380 to Phe-387,	H0615: 2, H0039: 2,
Gln-405 to Asp-410,	H0424: 2, H0163: 2,
Thr-581 to Asp-595.	H0040: 2, H0059: 2,
	L0659: 2, L0519: 2,
	L0438: 2, S0378: 2,
	S3012: 2, S3014: 2,
	L0743: 2, L0750: 2,
	L0758: 2, L0589: 2,
	H0656: 1, H0662: 1,
	S0420: 1, S0358: 1,
	S0408: 1, H0637: 1,
	S0222: 1, H0574: 1,
	S0280: 1, L0021: 1,
	H0544: 1, H0546: 1,
	H0545: 1, H0081: 1,
	H0012: 1, H0266: 1,
	H0188: 1, H0687: 1,
	H0288: 1, H0292: 1,
	H0252: 1, H0673: 1,
	H0100: 1, H0641: 1,
	S0144: 1, S0002: 1,
	L0761: 1, L0643: 1,
	L0662: 1, L0650: 1,
	L0774: 1, L0375: 1,
	L0805: 1, L0776: 1,
	L0783: 1, L0793: 1,
	L0665: 1, S0053: 1,
	H0520: 1, H0658: 1,
	H0672: 1, H0522: 1,

							S0406: 1, H0436: 1, S0037: 1, L0747: 1, L0749: 1, L0779: 1, L0731: 1, S0031: 1 and S0434: 1.			
HPRTS71	828574	36	3 - 458	2211		Pro-117 to Lys-134, Gln-136 to Trp-143.	L0748: 3, H0486: 2, L0599: 2, S0212: 1, S0358: 1, H0596: 1, H0032: 1, H0212: 1, S0002: 1, L0769: 1, L0775: 1, L0527: 1, L0519: 1, S0122: 1, L0754: 1 and L0750: 1.			
HOHBI90	828862	37	1 - 417	2212		Pro-1 to Pro-9, Arg-81 to Glu-87, Gln-114 to Glu-119.	S0250: 2, H0435: 2, S0152: 1 and L0745: 1.	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716	
HOHAL47	828872	38	295 - 879	2213		Gly-17 to Leu-40, Ala-47 to Phe-63, Glu-66 to Val-71, Ile-75 to His-92, Glu-112 to Asn-119, Asp-122 to Arg-135, Asn-140 to Phe-152, Asn-160 to Arg-166.	L0741: 3, H0069: 1, S0250: 1, H0032: 1, H0212: 1, L0774: 1, H0522: 1 and L0756: 1.	8p22-p21.3	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629	

HYASE58	829298	39	2 - 694	2214	Phe-4 to Gln-10.	AR061: 13, AR089: 5, AR096: 5, AR033: 4, AR060: 4, AR052: 3, AR053: 3, AR055: 3, AR104: 3, AR039: 2 H0617: 11, L0748: 5, L0731: 4, H0181: 3, L0775: 3, H0670: 3, L0749: 3, H0656: 2, H0550: 2, H0083: 2, H0087: 2, H0658: 2, H0539: 2, L0747: 2, L0750: 2, H0341: 1, H0661: 1, H0402: 1, S0418: 1, S0360: 1, S0045: 1, H0393: 1, H0587: 1, H0333: 1, H0544: 1, H0009: 1, H0510: 1, H0688: 1, H0644: 1, H0606: 1, H0708: 1, S0366: 1, H0131: 1, L0770: 1, L0540: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, L0665: 1, H0689: 1, H0682: 1, H0672: 1, L0743: 1, L0779: 1, L0759: 1, S0434: 1 and S0460: 1.		
HKAAH95	829958	40	2 - 418	2215	Arg-13 to Trp-31,	L0766: 7, L0731: 5,		

Val-61 to Asn-67, Lys-87 to Arg-92, Leu-97 to Asp-109, Ser-129 to Asp-139.					H0542: 5, H0494: 3, L0526: 3, L0750: 3, L0752: 3, L0757: 3, L0588: 3, H0686: 2, T0049: 2, H0657: 2, H0341: 2, S0358: 2, T0008: 2, S0046: 2, L0471: 2, H0169: 2, L0763: 2, L0774: 2, H0519: 2, S0126: 2, S0027: 2, L0590: 2, H0423: 2, H0685: 1, H0650: 1, H0662: 1, H0504: 1, S0376: 1, S0360: 1, H0580: 1, H0431: 1, T0109: 1, H0069: 1, H0098: 1, T0048: 1, S0182: 1, H0023: 1, H0014: 1, H0617: 1, H0413: 1, H0129: 1, H0625: 1, H0132: 1, S0150: 1, H0130: 1, H0633: 1, L0520: 1, L0764: 1, L0648: 1, L0662: 1, L0775: 1, L0806: 1, L0379: 1, L0517: 1, L0540: 1, L0383: 1, L0809: 1, L0519: 1, H0520: 1, H0659: 1,
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							H0658: 1, H0666: 1, S0328: 1, S0380: 1, S0032: 1, L0779: 1, L0758: 1, L0759: 1 and H0445: 1.			
HTTIQ02	829981	41	2 - 391	2216			Ala-96 to Lys-111, Cys-117 to Cys-128.			
HWACG91	830195	42	80 - 631	2217			Ser-2 to Arg-14, Ala-37 to Lys-45, Glu-60 to Leu-68, His-75 to Glu-82, Arg-92 to Ser-99, Gly-105 to Gln-110, Arg-119 to Phe-125.	H0581: 1 and H0521: 1.	6p12	180297, 230450, 263200, 601690
HUFBX52	830497	43	2 - 1531	2218			Thr-1 to Leu-9, Ser-46 to Leu-56, Glu-117 to Lys-124, Pro-129 to Asp-135, Ala-144 to Gln-150, Gly-156 to Lys-162, Phe-182 to Pro-187, Pro-196 to Gln-201, Lys-217 to Asp-227.	H0124: 8, H0550: 5, H0428: 3, H0586: 2, H0575: 2, H0555: 2, H0294: 1, S0282: 1, H0427: 1, H0196: 1, H0052: 1, H0194: 1, H0086: 1, H0123: 1, H0509: 1, H0684: 1, L0748: 1, L0747: 1, L0756: 1, S0192: 1 and H0506: 1.		
HWLJE49	831453	44	1 - 315	2219			Tyr-34 to His-42, Leu-44 to Leu-49.	S0358: 1, S0376: 1 and H0413: 1.	1p36	118210, 120550, 120570, 120575, 121800,

									130500, 133200, 155600, 171760, 171760, 185470, 211420, 230350, 255800, 601990, 602023, 602771
HLQBT44	832454	45	590 - 393	2220	Ala-23 to Asp-41.				
HSLGG58	833088	46	92 - 1450	2221	Gln-102 to Arg-109, Gly-177 to Pro-183, Pro-315 to Asn-323, Ser-361 to Cys-369, Ala-381 to Ser-391, Ser-419 to Ser-428.	AR061: 141, AR104: 122, AR055: 119, AR060: 115, AR052: 82, AR033: 78, AR039: 72, AR089: 67, AR053: 38, AR096: 32 L0759: 4, H0617: 3, L0749: 3, L0779: 3, H0253: 2, H0188: 2, H0165: 2, L0769: 2, L0637: 2, L0761: 2, L0665: 2, S0374: 2, H0682: 2, H0659: 2, L0748: 2, H0171: 1, H0685: 1, H0341: 1, H0255: 1, S0420: 1, H0586: 1, H0599: 1,	11q13	102200, 106100, 131100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235,	

								H0510: 1, S6028: 1, H0428: 1, H0424: 1, H0102: 1, H0494: 1, H0560: 1, L0770: 1, L0662: 1, L0774: 1, L0659: 1, L0526: 1, L0518: 1, L0528: 1, L0787: 1, L0666: 1, L0663: 1, H0693: 1, H0658: 1, S0152: 1, S0028: 1, L0439: 1, L0745: 1, L0755: 1, L0758: 1 and L0601: 1.			209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884
HCHBQ33	840756	47	148 - 480	2222	Arg-8 to Gln-19, Arg-25 to Lys-38.			H0483: 1, S0045: 1, S0046: 1, H0486: 1, H0012: 1, H0355: 1, S0364: 1, H0087: 1, H0413: 1, H0366: 1, S0028: 1, L0601: 1 and H0352: 1.	19p		
HDTMK30	840862	48	36 - 353	2223	Arg-2 to Pro-12, Lys-32 to Asn-37, His-75 to Asn-82.			H0486: 1, H0123: 1 and L0756: 1.	7q11.23		116860, 129900, 233700, 600079
HDPFX64	841088	49	320 - 1096	2224				L0757: 6, L0752: 5, L0439: 4, S0150: 2, L0774: 2, S014: 2, L0747: 2, L0750: 2, S0276: 2, S0212: 1, S0007: 1, H0574: 1,	6pter-q12		

							H0581: 1, H0068: 1, S0036: 1, H0135: 1, T0067: 1, L0065: 1, H0529: 1, H0026: 1, L0762: 1, L0773: 1, L0521: 1, L0766: 1, S0052: 1, H0521: 1, L0748: 1, L0749: 1, L0731: 1, L0759: 1, L0485: 1, L0593: 1 and H0542: 1.			
HODFG71	843485	50	1013 - 951	2225	Asp-1 to Glu-6.		AR089: 3, AR060: 2, AR053: 2, AR096: 2, AR061: 2, AR039: 1, AR033: 1, AR055: 0, AR104: 0 H0615: 1			
HCE3I65	844534	51	2 - 244	2226			S0358: 1, H0052: 1, H0375: 1, H0087: 1, H0380: 1, H0435: 1, H0521: 1, S0390: 1 and L0366: 1.			
HSAVH65	847355	52	2 - 397	2227	Ser-90 to His-96, Arg-127 to Gln-132.		S0114: 2, H0686: 1, L0769: 1, L0644: 1, L0662: 1, L0774: 1, L0666: 1, H0659: 1, L0750: 1 and S0436: 1.			
HBXFT41	847647	53	707 - 817	2228	Glu-14 to Gly-23.		AR096: 2, AR089: 2, AR061: 1, AR039: 0, AR060: 0, AR055: 0,	19p13.3	108725, 120700, 133171.	

								AR033: 0, AR104: 0 L0717: 1, H0438: 1, H0090: 1 and L0749: 1.		136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
HBMCM38	847821	54	373 - 290	2229				L0717: 1 and H0421: 1.		
HACBO42	849064	55	3 - 86	2230	Arg-19 to Pro-25.			L0776: 5, L0439: 4, L0805: 3, H0009: 2, L0438: 2, H0580: 1, S0280: 1, S0346: 1, H0674: 1, L0774: 1, L0384: 1, L0747: 1, L0786: 1, L0780: 1, L0752: 1, L0753: 1, S0031: 1, L0608: 1, S0412: 1 and L0698: 1.		
HODBF86	859572	56	276 - 338	2231				H0328: 2 and H0509: 1.		
HOABP90	859622	57	628 - 735	2232	Asp-23 to Asn-30.			AR089: 2, AR039: 2, AR096: 1, AR053: 1, AR104: 1, AR060: 1, AR061: 0, AR055: 0, AR033: 0 H0252: 1		

HE8UE42	862010	58	3 - 1610	2233	Glu-146 to Pro-151, Ala-231 to Ser-237, Asp-317 to Pro-322, Lys-365 to Gly-371, Phe-459 to Pro-464.	AR089: 8, AR060: 7, AR104: 5, AR096: 4, AR061: 3, AR055: 3 H0659: 5, L0740: 5, L0662: 4, L0771: 3, H0547: 3, H0521: 3, L0759: 3, L0362: 3, H0013: 2, H0597: 2, H0046: 2, H0083: 2, S0214: 2, H0674: 2, H0494: 2, L0517: 2, H0682: 2, L0747: 2, L0779: 2, S0434: 2, H0685: 1, H0583: 1, H0661: 1, H0638: 1, S0420: 1, S0360: 1, H0580: 1, H0438: 1, H0497: 1, H0599: 1, S0010: 1, H0581: 1, H0545: 1, H0457: 1, H0563: 1, L0163: 1, L0055: 1, H0673: 1, H0212: 1, H0591: 1, H0038: 1, H0616: 1, H0488: 1, S0142: 1, S0344: 1, L0763: 1, L0770: 1, L0767: 1, L0766: 1, L0776: 1, L0659: 1, L0782: 1, L0545: 1, H0144: 1,		
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HUSJJ59	862481	59	65 - 316	2234	Pro-1 to Met-6, Thr-47 to Asp-54.	H0672: 1, S0152: 1, S0406: 1, H0627: 1, S0390: 1, L0748: 1, L0777: 1, L0758: 1, S0026: 1, H0665: 1 and H0543: 1. L0748: 7, L0747: 6, L0769: 5, L0731: 4, S0444: 3, H0083: 3, H0412: 3, L0775: 3, H0670: 3, S0380: 3, L0779: 3, L0758: 3, H0352: 3, H0170: 2, S0007: 2, T0048: 2, H0309: 2, H0081: 2, H0413: 2, H0059: 2, H0641: 2, L0774: 2, L0655: 2, L0526: 2, H0144: 2, H0659: 2, H0710: 2, H0696: 2, S0027: 2, L0757: 2, L0615: 1, S0040: 1, H0295: 1, H0656: 1, S0116: 1, H0341: 1, H0484: 1, H0661: 1, H0664: 1, S0360: 1, S0408: 1, H0637: 1, H0393: 1, H0411: 1, H0392: 1, H0486: 1, H0318: 1, L0738: 1.	8p23.2- p23.1	
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HSSDM07	863515	60	221 - 1090	2235	Gln-1 to Ala-6, Arg-18 to His-24, Ala-80 to Val-88	H0545: 1, L0471: 1, H0014: 1, T0023: 1, H0181: 1, H0606: 1, H0673: 1, S0366: 1, H0316: 1, H0163: 1, H0087: 1, H0625: 1, S0438: 1, H0633: 1, S0210: 1, L0598: 1, H0517: 1, L0520: 1, L0371: 1, L0772: 1, L0764: 1, L0521: 1, L0549: 1, L0803: 1, L0776: 1, L0540: 1, L0783: 1, L0809: 1, L0529: 1, L0663: 1, L0665: 1, S0374: 1, H0593: 1, S0126: 1, H0711: 1, H0658: 1, H0660: 1, H0648: 1, H0672: 1, S0378: 1, S0404: 1, S0406: 1, S0432: 1, S3014: 1, L0740: 1, L0752: 1, L0590: 1, L0599: 1, H0668: 1, S0026: 1, H0423: 1, H0422: 1, S0424: 1 and H0712: 1.	L0803: 3, H0556: 2, L0769: 2, L0800: 2, H0265: 1, S0134: 1
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					Asp-97 to Asp-103, Arg-125 to Tyr-132, Arg-155 to Leu-161, Ser-167 to Asn-172, Gln-182 to Lys-187, Pro-206 to Thr-212, Glu-218 to Ser-228, Ser-236 to Pro-245.		S0358: 1, H0642: 1, H0575: 1, H0135: 1, L0809: 1, L0789: 1, S0330: 1, L0750: 1 and L0777: 1.		
HBCBW52	866444	61	1101 - 1352	2236	Phe-31 to Gln-36, Glu-51 to Ile-79.		L0596: 5, S0114: 2, H0370: 1, H0012: 1, H0620: 1 and S0038: 1.		
HOGAS18	867969	62	352 - 552	2237	Pro-1 to Ser-10, Leu-16 to Gly-21, Thr-43 to Thr-55, Lys-60 to Gly-67.		AR089: 6, AR060: 5, AR039: 4, AR096: 4, AR033: 2, AR055: 2, AR104: 1, AR061: 1, AR053: 0 H0435: 2, H0395: 1 and H0402: 1.		
HHSDL18	869701	63	494 - 628	2238			L0471: 1, S0051: 1, H0040: 1 and L0747: 1.		
HTFMS34	870486	64	2 - 460	2239	Tyr-1 to Trp-6.		L0511: 11, L0499: 6, L0509: 6, L0507: 5, L0502: 5, L0500: 5, L0508: 5, L0751: 5, L0493: 4, L0514: 4, L0504: 3, L0510: 3, L0809: 3, L0748: 3, L0505: 2, L0805: 2, L0515: 2, H0659: 2, H0670: 2, L0752: 2,		

HLDOG81	874506	65	1232 - 798	2240	Ile-81 to Arg-91.	S0424: 2, H0431: 1, H0150: 1, H0039: 1, H0674: 1, H0087: 1, T0041: 1, L0800: 1, L0768: 1, L0789: 1, L0664: 1 and L0749: 1.	1q22-q25	104770, 107300, 107670, 110700, 131210, 136132, 145001, 146790, 150292, 159440, 159440, 159440, 159440, 173610, 186780, 191030, 191315, 208250, 233710, 600923, 600995, 601412, 601518, 601652, 602491
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HTXQF81	874608	66	2 - 628	2241	Pro-3 to Arg-8, Gly-34 to Thr-53, Asp-60 to Ser-65, Phe-76 to Lys-81.	L0751: 13, L0771: 10, L0748: 9, L0601: 7, S0356: 6, L0731: 6, L0758: 6, L0769: 4, L0565: 4, L0747: 4, L0756: 4, L0596: 4, H0598: 3, L0766: 3, S0052: 3, S0206: 3, L0750: 3, H0542: 3, H0294: 2, H0657: 2, L0785: 2, S0418: 2, S0358: 2, S0360: 2, H0586: 2, H0587: 2, H0575: 2, H0081: 2, H0620: 2, H0083: 2, H0271: 2, H0622: 2, H0617: 2, H0494: 2, S0142: 2, L0374: 2, L0521: 2, L0381: 2, L0775: 2, L0776: 2, L0659: 2, S0027: 2, L0777: 2, L0759: 2, H0445: 2, L0591: 2, L0604: 2, H0556: 1, T0002: 1, H0222: 1, S0040: 1, H0295: 1, S0218: 1, H0341: 1, S0180: 1, S0212: 1, H0484: 1, H0241: 1, S0420: 1, S0354: 1,	Xp11.23	300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060
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	H0580: 1, S0045: 1, S0046: 1, S0278: 1, L0623: 1, H0486: 1, T0060: 1, H0427: 1, H0253: 1, H0581: 1, H0204: 1, H0597: 1, H0123: 1, H0011: 1, S0362: 1, H0375: 1, H0594: 1, H0179: 1, H0188: 1, H0428: 1, H0604: 1, H0213: 1, H0031: 1, L0055: 1, H0068: 1, H0090: 1, H0634: 1, H0063: 1, H0380: 1, H0433: 1, H0560: 1, S0466: 1, H0641: 1, H0649: 1, S0344: 1, H0026: 1, L0763: 1, L0761: 1, L0772: 1, L0372: 1, L0662: 1, L0378: 1, L0783: 1, L0384: 1, L0383: 1, L0666: 1, L0664: 1, S0126: 1, S0380: 1, S0152: 1, H0521: 1, S0406: 1, H0555: 1, L0740: 1, L0749: 1, L0780: 1, L0757: 1, S0192: 1, S0276: 1 and H0543: 1.				
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HCRNG90	874787	67	87 - 947	2242	Thr-5 to Gly-11, Arg-63 to Lys-73, Gln-92 to Glu-98, Ala-106 to Gly-112.	AR061: 56, AR055: 46, AR104: 43, AR096: 27, AR060: 25, AR089: 17 S0356: 4, L0809: 4, H0551: 2, S0342: 1, S0212: 1, H0544: 1, H0046: 1, L0803: 1, L0774: 1, S0126: 1 and S0152: 1.	6q14-q21	120110, 121014, 136550, 203310, 269920, 601666, 602772
HPWCL64	874891	68	2 - 601	2243	Glu-26 to Ser-33, Thr-82 to Phe-90, Met-107 to Asn- 114, Thr-125 to Glu-131, His-175 to Asp-180.	L0766: 7, L0771: 4, L0752: 4, L0438: 2, L0756: 2, L0777: 2, L0780: 2, H0341: 1, T0115: 1, T0110: 1, L0776: 1, L0783: 1, L0663: 1, S0044: 1, L0744: 1, L0439: 1, L0754: 1, L0750: 1 and L0779: 1.		
HWLMV62	874930	69	2 - 463	2244		H0140: 1, S0116: 1, S0376: 1, S0360: 1, L0695: 1, H0412: 1, H0641: 1, L0662: 1, L0803: 1, L0774: 1, L0527: 1, L0659: 1, L0663: 1, L0664: 1, L0665: 1, H0682: 1, H0435: 1, H0648: 1, L0743: 1, L0731: 1,		

H2MAC06	874931	70	2 - 763	2245				S0434: 1, L0596: 1 and L0362: 1. AR096: 102, AR055: 51, AR089: 46, AR060: 30, AR104: 29, AR061: 19 S0406: 23, L0362: 22, S0410: 13, H0593: 12, H0674: 10, S0434: 9, L0764: 8, S0358: 7, L0646: 7, H0506: 6, H0509: 5, L0809: 5, H0435: 5, S0376: 4, L0765: 4, L0382: 4, L0751: 4, H0686: 3, H0252: 3, H0169: 3, H0670: 3, S0330: 3, H0656: 2, S0116: 2, S0132: 2, H0581: 2, H0596: 2, S0314: 2, T0023: 2, H0059: 2, S0440: 2, L0372: 2, L0381: 2, L0659: 2, L0666: 2, H0690: 2, L0750: 2, L0596: 2, L0601: 2, H0171: 1, S0430: 1, H0650: 1, H0663: 1, H0306: 1, S0360: 1, T0104: 1, T0071: 1, H0421: 1,
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									H0251: 1, H0263: 1, H0204: 1, H0231: 1, H0039: 1, H0622: 1, L0194: 1, L0483: 1, S0368: 1, H0032: 1, H0090: 1, H0040: 1, H0488: 1, H0494: 1, S0352: 1, H0646: 1, L0762: 1, L0800: 1, L0553: 1, L0648: 1, L0775: 1, L0376: 1, L0653: 1, L0540: 1, L0783: 1, L0664: 1, S0053: 1, S0374: 1, H0682: 1, H0684: 1, H0658: 1, H0648: 1, H0672: 1, S0328: 1, S0152: 1, S0432: 1, S0436: 1 and L0600: 1.			
HWLRF06	875093	71	2 - 385	2246	Gly-2 to Gly-7, Glu-9 to Gln-16, Cys-24 to Gly-30, Ala-35 to Ala-45, Ala-55 to Ala-60, Cys-79 to Leu-90, Asp-95 to Asp-103.				S0212: 1 and S0360: 1.			
HODDO41	875352	72	323 - 487	2247	Glu-29 to Asn-42.				H0328: 2			
HCHMQ74	875371	73	3 - 440	2248	Pro-6 to Leu-25, Ser-34 to Arg-53, Pro-71 to Glv-81.				S0330: 2, L0748: 2, H0484: 1, T0114: 1 and L0764: 1.			

HT3AI55	875682	74	1 - 504	2249	Ser-83 to Glu-94.	L0749: 3, S0356: 2, L0766: 2, H0170: 1, H0140: 1, L0770: 1, L0662: 1, L0659: 1, H0682: 1, L0752: 1, L0731: 1, L0758: 1 and H0542: 1.		
HMVBD68	876052	75	130 - 276	2250		L0745: 6, S0360: 4, S0440: 2, H0341: 1, S0212: 1, L0717: 1, H0587: 1, H0497: 1, H0574: 1, H0687: 1, H0428: 1, S0422: 1, L0667: 1, L0645: 1, L0662: 1, L0768: 1, L0649: 1, L0518: 1, H0435: 1, S0380: 1, H0518: 1, L0754: 1, L0746: 1, S0434: 1, L0592: 1 and S0424: 1.		
HOCTA74	876487	76	65 - 292	2251	Lys-1 to Ser-7.	L0748: 5, L0764: 4, L0774: 4, L0758: 3, L0662: 2, L0751: 2, L0608: 2, L0760: 1, S0444: 1, H0331: 1, H0263: 1, H0674: 1, L0770: 1, L0649: 1, L0803: 1, L0775: 1, L0809: 1, L0666: 1,		

							L0663: 1, L0665: 1, S0374: 1, L0565: 1, H0648: 1, L0752: 1, L0596: 1, L0361: 1, S0026: 1 and H0506: 1.			
HIS05	876686	77	433 - 909	2252		Ala-1 to Thr-8, Ala-15 to Pro-23, Pro-68 to Gly-78, Ser-82 to Gly-93, Gly-118 to Ala-135.	L0761: 2, L0800: 1, L0773: 1, L0803: 1 and H0539: 1.			
HCRQM22	876696	78	3 - 332	2253		Arg-1 to Arg-7, Gly-72 to Asp-78, Lys-83 to Gln-90.	S0356: 1, H0318: 1, H0038: 1 and H0040: 1.	12p13	103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096	
HLHTC92	877310	79	143 - 478	2254		Met-2 to Leu-12, Ser-16 to Asp-23, Gly-38 to Lys-45.	H0208: 1, H0263: 1, H0412: 1 and L0754: 1.			
H2CAA49	879484	80	1426 - 203	2255		Lys-44 to His-50, Thr-110 to Pro-116, Lys-178 to Gln-183, Pro-196 to Lys-205,				

HETKQ94	880545	81	2 - 943	2256	Arg-214 to Thr-220, Asp-295 to Leu-301, Pro-316 to Glu-324, Glu-331 to Tyr-336, Gly-347 to Val-354. Lys-84 to Gly-98, Asp-126 to Pro-134, Ser-208 to His-218, Tyr-233 to Asp-243, Arg-288 to Pro-295, Gly-303 to Ser-314.	AR052: 3, AR061: 3, AR089: 3, AR096: 2, AR055: 2, AR060: 2, AR053: 2, AR033: 2, AR039: 1, AR104: 1 H0046: 6, L0769: 3, L0748: 3, L0779: 3, L0777: 3, S0358: 2, S0005: 2, H0618: 2, L0662: 2, L0776: 2, H0547: 2, L0439: 2, L0751: 2, L0600: 2, S0040: 1, S0134: 1, S0218: 1, H0650: 1, S0418: 1, S0045: 1, H0549: 1, H0333: 1, H0486: 1, H0253: 1, H0231: 1, H0620: 1, H0014: 1, S0250: 1, H0063: 1, H0087: 1, H0264: 1, H0280: 1, L0640: 1, L0770: 1, L0764: 1, L0768: 1, L0806: 1, L0663: 1, L0664: 1, H0520: 1,			

							H0539: 1, S0390: 1, S0028: 1, L0747: 1, L0758: 1 and S0424: 1.			
HOFMO23	882466	82	5 - 502	2257	Asn-40 to Val-45.		AR089: 2, AR096: 1, 7 AR060: 1, AR039: 0, AR061: 0, AR033: 0, AR104: 0 H0415: 2			
HNTNP58	882787	83	2162 - 2383	2258			AR039: 105, AR096: 91, AR089: 70, AR104: 48, AR033: 48, AR053: 46, AR060: 43, AR055: 18, AR061: 16 S0444: 5, H0436: 5, L0521: 3, H0684: 3, H0659: 3, L0758: 3, S0410: 2, H0250: 2, S0049: 2, L0471: 2, H0266: 2, H0625: 2, S0440: 2, L0805: 2, H0690: 2, L0747: 2, L0779: 2, S0026: 2, H0422: 2, H0170: 1, H0265: 1, H0556: 1, H0686: 1, S0040: 1, S0342: 1, H0294: 1, H0341: 1, H0664: 1, H0638: 1, S0007: 1, S0046: 1, H0351: 1, H0559: 1, H0427: 1,			

							H0421: 1, L0738: 1, H0545: 1, H0083: 1, H0628: 1, H0321: 1, H0412: 1, T0069: 1, H0202: 1, H0494: 1, S0422: 1, L0763: 1, L0769: 1, L0772: 1, L0764: 1, L0657: 1, L0783: 1, L0809: 1, L0519: 1, L0665: 1, H0698: 1, H0691: 1, H0724: 1, H0520: 1, H0547: 1, S0126: 1, H0670: 1, H0660: 1, H0666: 1, H0648: 1, H0134: 1, S0028: 1, L0756: 1, L0752: 1, S0434: 1, L0589: 1, H0136: 1, S0194: 1, S0276: 1, H0543: 1 and H0423: 1.				
HOFNY28	888480	84	3 - 479	2259			AR053: 6, AR089: 6, AR039: 6, AR060: 5, AR104: 4, AR096: 4, AR033: 3, AR055: 3, AR061: 2 H0415: 1	11p15	108985, 186921, 602092		
HE8MQ01	889128	85	2612 - 2478	2260	Ser-8 to Cys-14, Trp-34 to Phe-45.		H0729: 1, H0392: 1, H0013: 1, H0318: 1, H0009: 1, H0328: 1,				

									H0615: 1, T0041: 1, L0662: 1, L0768: 1, L0522: 1, H0436: 1, H0444: 1 and S0308: 1.			
HE2RG21	891139	86	2 - 553	2261	Arg-1 to Asn-14, Lys-47 to Glu-53, Ser-59 to Ser-70, Gln-82 to Gly-93, Glu-100 to Glu-105, Gly-123 to Ser-129, Phe-164 to Lys-173.							
HHENW77	894855	87	3 - 341	2262					AR033: 8, AR104: 6, AR089: 3, AR039: 3, AR060: 2, AR061: 2, AR096: 2, AR053: 0, AR055: 0 H0539: 9, H0052: 5, T0010: 4, L0439: 4, L0769: 3, L0443: 2, H0046: 2, L0456: 2, L0770: 2, L5574: 2, L0803: 2, L0664: 2, L0438: 2, L0751: 2, L0747: 2, S0436: 2, H0542: 2, H0717: 1, S0010: 1, H0744: 1, H0562: 1, H0012: 1, S0388: 1, H0510: 1, H0418: 1, H0617: 1, S0038: 1, L0351: 1,			

							L0762: 1, L0631: 1, L0638: 1, L5565: 1, L0764: 1, L0794: 1, L0649: 1, L0774: 1, L0806: 1, L0655: 1, L0659: 1, L0635: 1, L0382: 1, L0788: 1, L0666: 1, H0520: 1, H0658: 1, H0670: 1, H0660: 1, H0648: 1, H0696: 1, L0742: 1, L0750: 1, L0780: 1, L0752: 1, H0445: 1, H0543: 1, H0423: 1 and H0422: 1.			
HOFNU55	897344	88	705 - 517	2263			Phe-58 to Ala-63.	H0415: 2		
HE8TE40	897862	89	86 - 1165	2264			Ser-50 to Thr-57, Pro-89 to Arg-96, Thr-128 to Glu-137, Cys-150 to Asp-155, Arg-176 to Lys-184, Glu-186 to Cys-201, Ala-238 to Ala-247, Pro-270 to Pro-277, Thr-283 to Thr-295, Leu-329 to Arg-338, Gln-345 to Arg-350.	L0803: 8, S0408: 4, L0804: 3, L0805: 3, L0766: 2, L0779: 2, S0114: 1, H0341: 1, H0662: 1, S0222: 1, H0486: 1, H0013: 1, H0581: 1, H0615: 1, H0038: 1, S0440: 1, L0800: 1, L0521: 1, L0794: 1, L0774: 1, L0806: 1, L0526: 1, L0789: 1, L0790: 1, L0792: 1, L4501: 1, L0663: 1, H0519: 1,		

HNTCH73	900546	90	114 - 1418	2265	Ala-69 to Ser-77, Arg-95 to Lys-102, Gln-117 to Gln-125, Tyr-133 to Arg-140, Pro-157 to Ser-163, Glu-190 to Phe-202, Trp-251 to Asn-258, Gln-270 to Gln-277, Leu-285 to Gly-290, Thr-312 to Arg-337.	S0380: 1, H0696: 1, L0612: 1, L0745: 1, L0756: 1, L0780: 1, L0752: 1 and H0543: 1. AR089: 3, AR096: 2, AR060: 1, AR033: 1, AR104: 1, AR061: 1, AR055: 0, AR039: 0, AR053: 0 H0686: 4, H0574: 3, H0412: 3, S0045: 2, H0024: 2, L0777: 2, L0759: 2, L0603: 2, H0664: 1, S0418: 1, S0358: 1, S0360: 1, H0208: 1, S0046: 1, H0619: 1, H0549: 1, H0632: 1, H0485: 1, H0309: 1, H0085: 1, H0235: 1, L0471: 1, H0620: 1, H0083: 1, S0628: 1, H0622: 1, S0366: 1, S0464: 1, L0065: 1, L0638: 1, L0637: 1, L0764: 1, L0773: 1, L0768: 1, L0774: 1, L0659: 1, H0144: 1, S0374: 1, L0438: 1, H0547: 1, H0519: 1, S0406: 1,	14q22-q23	107970, 112262, 182600, 182870, 182870, 182870, 232700, 602086
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							H0627: 1, H0631: 1, L0749: 1, L0779: 1, S0026: 1, H0136: 1 and S0194: 1.			
HHFBY53	902534	91	3 - 299	2266	Lys-9 to Ser-15, Pro-29 to Ala-35.		AR060: 3, AR033: 1, AR089: 1, AR104: 1, AR096: 0, AR055: 0, AR039: 0, AR061: 0 S0360: 3, H0670: 3, H0556: 2, H0292: 2, H0686: 1, H0685: 1, S0134: 1, S0116: 1, H0662: 1, H0640: 1, S0300: 1, H0586: 1, H0642: 1, L0622: 1, L0586: 1, H0253: 1, H0050: 1, H0057: 1, T0006: 1, L0653: 1, L0657: 1, L0659: 1, L0787: 1, L0666: 1, L0663: 1, H0547: 1, H0659: 1, H0648: 1, H0436: 1, L0748: 1, L0362: 1, L0361: 1, H0653: 1, H0542: 1, H0423: 1 and H0422: 1.	Xq13.1	304040, 305100, 305450, 309605, 312760, 314250, 314580	
HDPIE44	904763	92	1 - 2418	2267	Pro-1 to Arg-13, Pro-71 to Ser-77, Asn-107 to Ser-122, Val-150 to Pro-155,		AR052: 2, AR033: 2, AR096: 2, AR053: 1, AR060: 1, AR104: 1, AR055: 1, AR089: 1,			

					Ser-235 to Lys-241, Arg-349 to Phe-360, Thr-363 to Glu-376, Gln-438 to Thr-443, Leu-466 to Ala-472, Lys-475 to Thr-484, Ser-511 to Val-516, Glu-544 to Ser-550, Tyr-627 to Thr-632, Arg-650 to Lys-658, Asp-683 to Asn-688, Glu-740 to Glu-746, Tyr-755 to Glu-760.	AR061: 0, AR039: 0 S0358: 3, H0622: 2, H0553: 2, H0090: 2, L0769: 2, L0794: 2, H0547: 2, S0126: 2, L0747: 2, H0265: 1, S0418: 1, H0208: 1, S0045: 1, H0486: 1, H0052: 1, H0046: 1, H0024: 1, H0051: 1, H0375: 1, H0634: 1, H0488: 1, T0042: 1, H0494: 1, H0561: 1, S0438: 1, H0538: 1, L0800: 1, L0803: 1, L0804: 1, L0805: 1, L4501: 1, H0521: 1, H0555: 1, L0779: 1, S0436: 1 and H0506: 1.		
HHSAX10	904783	93	3 - 683	2268	Lys-33 to Arg-46, Met-141 to His-150, Thr-205 to Thr-211, Arg-218 to Ser-226.	AR033: 35, AR104: 29, AR089: 13, AR096: 11, AR060: 9, AR052: 8, AR053: 7, AR055: 6, AR039: 5, AR061: 2 L0745: 7, L0756: 7, L0598: 6, S0346: 5, S0036: 5, L0769: 4, L0777: 4, L0731: 4, S0010: 3, H0052: 3,		

S0051: 3, L0770: 3, L0803: 3, L0438: 3, L0758: 3, S0031: 3, H0170: 2, H0438: 2, S0049: 2, T0010: 2, H0687: 2, H0038: 2, H0616: 2, L0351: 2, L0794: 2, L0806: 2, L0790: 2, H0660: 2, L0439: 2, L0751: 2, L0754: 2, L0366: 2, S6024: 1, S0300: 1, H0351: 1, S0222: 1, H0013: 1, T0048: 1, H0194: 1, H0009: 1, H0565: 1, H0050: 1, H0242: 1, H0051: 1, H0201: 1, S0388: 1, H0083: 1, H0510: 1, H0428: 1, H0031: 1, L0455: 1, S0039: 1, H0561: 1, L0369: 1, L0520: 1, L0371: 1, L0638: 1, L0796: 1, L0637: 1, L0662: 1, L0774: 1, L0635: 1, L0809: 1, L0666: 1, L0663: 1, H0659: 1, H0648: 1, H0651: 1, S0330: 1, S3014: 1,
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							L0748: 1, L0740: 1, L0780: 1, L0752: 1, L0753: 1, L0759: 1, S0260: 1, L0589: 1 and L0592: 1.			
HPIAX83	906066	94	156 - 2459	2269		Gly-1 to Ser-9, Arg-127 to Arg-138, Tyr-188 to Arg-193, Arg-246 to His-254, Ser-428 to Arg-434, Lys-487 to Lys-493, Gly-515 to Leu-523, Leu-545 to Asn-550, Leu-579 to Ala-588, Lys-631 to Cys-639, Lys-717 to Ser-724.	AR052: 5, AR033: 4, AR061: 3, AR089: 3, AR060: 3, AR055: 3, AR104: 3, AR096: 3, AR053: 3, AR039: 1 L0157: 4, L0777: 4, L0759: 4, H0551: 3, H0144: 3, L0438: 3, S0360: 2, S0036: 2, L0771: 2, L0775: 2, L0659: 2, L0783: 2, S0374: 2, H0658: 2, H0672: 2, L0591: 2, S0342: 1, S0358: 1, H0722: 1, H0427: 1, S0346: 1, H0581: 1, H0327: 1, L0471: 1, S0051: 1, S0003: 1, H0040: 1, H0561: 1, S0440: 1, S0150: 1, L0770: 1, L0764: 1, L0662: 1, L0774: 1, L0526: 1, L0519: 1, L0666: 1, L0663: 1, L0665: 1, L0352: 1,			

								H0547: 1, H0684: 1, H0659: 1, H0648: 1, H0539: 1, S0152: 1, S0028: 1, L0756: 1, L0779: 1, L0731: 1, L0758: 1, S0434: 1, S0436: 1, L0362: 1, H0542: 1 and H0422: 1.			
HOFNG28	908746	95	3 - 401	2270	Gln-76 to Asp-82, Lys-96 to Gln-103.			AR052: 2, AR089: 2, AR055: 1, AR060: 1, AR096: 1, AR033: 1, AR061: 1, AR104: 1, AR053: 0, AR039: 0 H0415: 2			
HOF0B27	911947	96	565 - 1491	2271	Cys-1 to Cys-15, Arg-24 to Gly-31, Lys-37 to Glu-47, Glu-85 to Lys-92, Tyr-102 to Gly-107, Asp-166 to Lys-181, Phe-216 to His-229, Gln-248 to Phe-254, Arg-260 to Cys-267, Ser-285 to Arg-296.			AR053: 2, AR089: 2, AR055: 1, AR060: 1, AR096: 1, AR061: 0, AR039: 0, AR033: 0, AR104: 0 L0758: 6, H0620: 4, L0769: 4, L0777: 4, H0556: 3, S0420: 2, L0770: 2, L0803: 2, L0776: 2, L0659: 2, L0666: 2, S0374: 2, L0748: 2, L0591: 2, H0265: 1, H0685: 1, S0134: 1, H0484: 1, S0354: 1, S0360: 1, S0408: 1, H0580: 1,			

HHBHJ45	913831	97	2 - 1498	2272	Ala-65 to Lys-73, Phe-135 to Arg-140, Glu-174 to Pro-184, Glu-207 to Ala-212, Lys-220 to Asp-231, Glu-236 to Lys-252, Glu-268 to Asn-286, Leu-378 to Ser-384, Gln-421 to Gly-437, Leu-448 to Asp-453, Glu-485 to Trp-495.	H0415: 1, H0587: 1, H0599: 1, H0053: 1, H0052: 1, H0081: 1, H0288: 1, H0428: 1, H0059: 1, H0633: 1, L0766: 1, L0650: 1, L0805: 1, L0655: 1, L0606: 1, L0791: 1, L0664: 1, H0144: 1, L0438: 1, H0547: 1, H0690: 1, H0682: 1, S0378: 1, H0521: 1, L0439: 1, L0740: 1, L0751: 1, L0755: 1, L0595: 1, H0665: 1, S0424: 1 and H0677: 1.	2p14-p16	126600, 126600, 136435, 160980, 203800, 600678
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HHPDV90	914163	98	1188 - 1045	2273	Asn-21 to Lys-39, Leu-43 to Lys-48.	L0626: 1, L0768: 1, L0387: 1, L0766: 1, L0498: 1, L0650: 1, L0774: 1, L0375: 1, L0508: 1, L0655: 1, L0657: 1, L0783: 1, L0663: 1, L0352: 1, H0547: 1, H0593: 1, H0648: 1, S0136: 1, H0522: 1, H0696: 1, L0750: 1, L0758: 1, S0434: 1, L0604: 1 and H0423: 1.		
						AR096: 7, AR089: 6, AR060: 5, AR053: 4, AR104: 4, AR033: 3, AR055: 3, AR061: 2 L0777: 13, L0766: 6, L0803: 4, L0752: 4, L0769: 3, L0794: 3, L0747: 3, L0755: 3, L0805: 2, L0776: 2, L0655: 2, L0659: 2, H0547: 2, L0759: 2, L0596: 2, H0650: 1, S0360: 1, S0010: 1, H0150: 1, H0024: 1, H0051: 1, H0553: 1, H0090: 1, H0412: 1, L0761: 1, L0771: 1.		

HWMMQ47	915068	99	2 - 232	2274	Gly-41 to Gly-53, Gly-65 to Arg-77.	L0363: 1, L0804: 1, H0519: 1, S0122: 1, H0435: 1, H0658: 1, H0648: 1, L0740: 1, L0750: 1, L0757: 1, H0543: 1 and H0423: 1. S0444: 5, S0358: 4, S0410: 4, S0406: 4, L0759: 4, L0604: 4, H0686: 3, H0728: 3, H0083: 3, H0659: 3, H0658: 3, L0747: 3, L0581: 3, H0657: 2, H0341: 2, H0484: 2, H0734: 2, H0550: 2, S0222: 2, H0052: 2, T0006: 2, S0364: 2, H0038: 2, H0413: 2, S0422: 2, L0768: 2, L0774: 2, L0775: 2, L0783: 2, H0690: 2, H0670: 2, H0648: 2, S0380: 2, L0757: 2, L0758: 2, L0588: 2, L0608: 2, L0601: 2, S0026: 2, H0170: 1, S0114: 1, H0381: 1, S0282: 1, H0638: 1, S0442: 1, S0360: 1, H0730: 1, H0735: 1,		
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HBGNY08	915214	100	429 - 70	2275				S0045: 1, S0046: 1, S0132: 1, H0587: 1, H0559: 1, L0622: 1, H0486: 1, T0114: 1, T0082: 1, S0010: 1, H0421: 1, H0173: 1, H0231: 1, L0738: 1, H0569: 1, H0688: 1, H0428: 1, H0213: 1, H0166: 1, H0674: 1, H0616: 1, H0412: 1, H0625: 1, L0065: 1, S0438: 1, H0509: 1, H0131: 1, H0529: 1, L0763: 1, L0500: 1, L0769: 1, L0638: 1, L0764: 1, L0662: 1, L0766: 1, L0803: 1, L0632: 1, L0655: 1, L0543: 1, L5623: 1, L0664: 1, H0214: 1, H0732: 1, S0028: 1,- L0741: 1, L0742: 1, L0754: 1, L0749: 1, L0752: 1, L0731: 1, S0436: 1, H0668: 1, H0136: 1 and H0352: 1. H0373: 1 and H0617: 1.	14q11-q12	160760, 160760, 182600,
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								600243, 600792, 601369, 602086, 602279, 602279
HODGH45	917394	101	567 - 941	2276	Arg-7 to Arg-12, Pro-77 to Asp-82.	H0615: 2 and S0052: 1.		
HWLKE58	917716	102	3 - 536	2277	Pro-1 to Val-11, Asp-25 to Glu-34, Arg-117 to Gln-122, Thr-147 to Arg-152, Glu-160 to Cys-172.	L0731: 7, L0605: 6, L0766: 4, L0655: 4, L0659: 4, L0756: 4, L0803: 3, H0648: 3, L0777: 3, S0358: 2, S0408: 2, L0021: 2, H0014: 2, T0010: 2, L0143: 2, H0641: 2, L0638: 2, L0662: 2, L0794: 2, L0776: 2, L0657: 2, L0809: 2, L0666: 2, L0663: 2, L0751: 2, L0755: 2, L0758: 2, L0588: 2, H0543: 2, H0170: 1, H0657: 1, S0212: 1, H0661: 1, H0663: 1, S0420: 1, S0360: 1, L0717: 1, L0586: 1, L0105: 1, H0318: 1, H0581: 1, H0052: 1, H0309: 1, L0157: 1,		

HRADL40	919433	103	1 - 942	2278	Phe-1 to Arg-7, Arg-40 to Gly-46, Lys-96 to Ser-102, Cys-126 to Ala-131, Asp-260 to Leu-265, Arg-308 to Gly-314.	L0471: 1, H0024: 1, H0354: 1, S0003: 1, H0328: 1, H0615: 1, H0169: 1, H0163: 1, H0090: 1, H0272: 1, T0041: 1, S0440: 1, S0142: 1, S0210: 1, L0372: 1, L0645: 1, L0764: 1, L0651: 1, L0656: 1, L0789: 1, L0665: 1, S0126: 1, H0682: 1, H0435: 1, H0659: 1, S0380: 1, H0518: 1, H0696: 1, L0439: 1, L0740: 1, L0746: 1, L0750: 1, L0779: 1, L0752: 1 and S0260: 1.	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 156850, 186580,
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HOFMP73	919895	104	92 - 1129	2279	Ala-24 to Phe-30, Asn-42 to Trp-48, Val-57 to Leu-62, Ser-90 to Gln-96, Lys-104 to Cys-112, Gly-150 to Gly-159, Tyr-180 to Cys-186.	AR060: 2, AR061: 2, AR055: 1, AR089: 1, AR096: 1, AR033: 0, AR039: 0 H0415: 2 and H0414: 1.	8p22	148370, 238600, 238600, 238600, 238600, 600143, 601385,	

						Pro-193 to Asp-210, Pro-220 to Ser-235, Ser-306 to Asp-313, Thr-339 to Ile-346.					602629
HOFMS02	920253	105	21 - 272	2280		Phe-24 to Glu-48.				H0415: 4	
HUVHD12	921707	106	1 - 666	2281		Tyr-44 to Trp-63, Thr-84 to Thr-90, Gln-111 to Tyr-116.				L0805: 9, L0747: 9, L0770: 8, L0794: 8, L0756: 8, H0271: 7, L0769: 5, L0748: 5, L0750: 5, H0305: 4, L0766: 4, L0804: 4, L0809: 4, H0265: 3, H0052: 3, H0051: 3, H0623: 3, L0803: 3, L0775: 3, H0556: 2, H0441: 2, H0486: 2, H0069: 2, H0050: 2, H0620: 2, S0051: 2, H0416: 2, S0036: 2, H0135: 2, S0002: 2, L0761: 2, L0768: 2, L0666: 2, H0144: 2, L0438: 2, L0439: 2, L0777: 2, S0114: 1, L0785: 1, S0001: 1, S0035: 1, H0402: 1, H0638: 1, H0580: 1, S0045: 1, S0046: 1, S0222: 1, H0333: 1, H0635: 1, H0036: 1,	

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HMVDQ41	922191	107	327 - 809	2282		L0752: 24, L0751: 7, L0748: 6, L0777: 6, L0775: 5, L0742: 5, L0749: 5, S0358: 4, L0776: 4, L0756: 4, S0376: 3, L0757: 3, S0212: 2, S0444: 2, S0010: 2, L0770: 2, L0764: 2, L0773: 2, L0774: 2, H0519: 2, L0743: 2, L0740: 2, L0731: 2, L0758: 2,					

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HODGI03	922879	108	3 - 227	2283	Lys-1 to Trp-26, Lys-34 to Ile-42.	H0615: 2			
HODHD14	922955	109	1 - 174	2284		H0615: 3 and H0352: 1.			
HODDC03	925296	110	3 - 311	2285	Lys-10 to Arg-32.	H0328: 1 and H0615: 1.			
HVCAG04	925735	111	1368 - 781	2286			2q21-q22	133510, 133510,	

								165320, 223000, 223000, 256030
HCRCE02	925837	112	31 - 129	2287			L0756: 6, L0776: 2, L0744: 2, H0486: 1, H0327: 1, S0003: 1, H0090: 1, L0761: 1, L0662: 1, L0766: 1, L0518: 1, H0659: 1, H0670: 1, S0406: 1, L0777: 1, L0780: 1, L0605: 1, L0366: 1 and H0423: 1.	
HHERA91	926067	113	2028 - 2399	2288	Ser-59 to Leu-66, Leu-76 to Trp-87, Arg-92 to Gly-105.		AR053: 3, AR089: 3, AR096: 2, AR060: 2, AR033: 2, AR061: 1, AR104: 1, AR055: 0	
HAGDL82	928396	114	2 - 94	2289	Pro-21 to Ala-28.			
HWBDS34	930484	115	3 - 983	2290	Pro-18 to Leu-25, Asp-72 to Ser-82, Pro-97 to Gly-107, Leu-110 to Ser-137.		S0212: 4, H0580: 1, S0045: 1, H0351: 1, S0010: 1, S0003: 1, H0560: 1, S0002: 1 and L0604: 1.	
H6ESA39	933568	116	2 - 1150	2291	Ala-9 to Trp-14.		L0758: 4, H0556: 3, L0751: 3, S0408: 2, H0618: 2, L0768: 2, H0547: 2, H0660: 2, L0754: 2, L0779: 2,	

HPCOR06	933678	117	147 - 281	2292	Val-18 to Glu-33.	H0661: 1, H0370: 1, H0491: 1, H0318: 1, H0566: 1, H0551: 1, T0004: 1, L0435: 1, L0769: 1, L4747: 1, L5566: 1, L0772: 1, L0644: 1, L0764: 1, L0773: 1, L0774: 1, L0775: 1, L0806: 1, L0807: 1, L0659: 1, L0809: 1, L0665: 1, L0743: 1, L0747: 1, L0756: 1, L0777: 1, L0759: 1 and L0601: 1.		
HTFNO06	933989	118	2 - 562	2293		H0659: 2 and L0777: 2. L0794: 11, L0511: 11, L0748: 10, L0747: 8, L0499: 6, L0805: 6, L0509: 6, L0507: 5, L0502: 5, L0500: 5, L0766: 5, L0803: 5, L0508: 5, L0809: 5, L0751: 5, L0750: 5, L0752: 5, L0764: 4, L0662: 4, L0649: 4, L0493: 4, L0514: 4, H0670: 4, L0779: 4, H0445: 4, H0657: 3, H0036: 3, S0422: 3,		

									H0039: 1, H0674: 1, L0455: 1, H0087: 1, H0059: 1, T0041: 1, T0042: 1, H0494: 1, H0509: 1, H0646: 1, S0002: 1, L0800: 1, L0644: 1, L0533: 1, L0804: 1, L0650: 1, L0774: 1, L0806: 1, L0655: 1, L0661: 1, L0659: 1, L0782: 1, L0519: 1, L0793: 1, L0664: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, H0711: 1, H0660: 1, S0152: 1, S0032: 1, L0754: 1, L0731: 1, L0757: 1, L0592: 1, S0194: 1, H0543: 1, H0422: 1, L0600: 1 and H0352: 1.			
HODFY08	935520	119	130 - 339	2294	Arg-40 to Gln-45.	L0803: 4, H0615: 2, S6028: 1, L0521: 1, L0662: 1, L0794: 1 and L0756: 1.						
HRACK27	935717	120	3 - 1283	2295	Lys-121 to Arg-127.	H0039: 3, L0794: 2, H0650: 1, S0212: 1, S0358: 1, H0441: 1, H0587: 1, S0003: 1, H0494: 1, H0529: 1,						

HRACW30	940639	121	7 - 786	2296		L0766: 1, H0690: 1, H0539: 1, H0696: 1, H0555: 1, L0439: 1, L0779: 1 and S0242: 1. S0358: 250, H0087: 131, S0376: 112, L0751: 93, H0445: 88, H0506: 87, L0599: 69, S0360: 67, H0672: 63, S0328: 63, S0116: 56, S0374: 55, H0597: 47, L0767: 47, L0744: 45, H0555: 44, H0486: 43, H0581: 35, H0040: 29, L0536: 29, L0535: 28, L0659: 26, H0658: 26, L0378: 24, L0546: 24, L0743: 24, H0255: 23, L0768: 23, H0264: 21, H0231: 20, H0085: 18, H0659: 18, L0607: 17, H0063: 16, S0330: 16, H0657: 15, L0785: 15, S0354: 15, H0647: 15, L0762: 15, S0372: 13, L0776: 13, H0421: 12, L0379: 11, S0446: 11, L0600: 11, L0663: 10, L0748: 10, H0595: 10, L0372: 9, L0648: 9, H0663: 8,	2p12	147200, 178640, 216900
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HOF0C32	941969	122	3 - 1502	2297	Thr-1 to Pro-6, Pro-57 to Thr-63, Arg-110 to Asp-115, Lys-147 to Pro-152, Met-221 to Cys-228, Tyr-254 to Cys-261, Lys-286 to Gly-295, Thr-315 to Gly-325, Ala-351 to Ser-356, Ile-380 to Gln-387, Gly-409 to Arg-419, Val-421 to Val-428.	118504, 118504, 131242, 256540, 600281, 600281, 602235	20q13.1- 13.3			
HTTDM15	942511	123	2 - 670	2298	Glu-181 to Pro-189, Lys-211 to Arg-217.	AR052: 12, AR055: 11, AR053: 10, AR089:				

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HOVAY63	944031	124	589 - 449	2299	Lys-30 to His-47.	AR039: 13, AR104: 7, AR053: 6, AR089: 6, AR096: 6, AR052: 5, AR060: 5, AR033: 4, AR055: 4, AR061: 3 H0428: 3, H0545: 1 and L0754: 1.				
HDPFY41	946502	125	597 - 2024	2300	Trp-2 to Ile-8, Cys-31 to Asp-39, Glu-54 to Ser-61, Gln-63 to Lys-70, Arg-79 to Arg-85,	AR089: 19, AR096: 18, AR039: 11, AR053: 7, AR060: 6, AR055: 2, AR033: 1, AR061: 1, AR104: 1, AR052:				

					Ser-134 to His-143, Asn-145 to Thr-150, Ser-155 to Thr-168, Asp-198 to His-203, Phe-205 to Asp-234, Pro-238 to Asn-252, Phe-260 to Val-281, Pro-292 to Leu-314, Thr-317 to Ala-322, Lys-335 to His-342.	0	L0439: 4, L0756: 4, H0616: 3, L0766: 3, L0803: 3, L0777: 3, H0662: 2, H0428: 2, L0665: 2, H0547: 2, L0602: 2, L0779: 2, L0731: 2, H0624: 1, S6024: 1, S0114: 1, H0661: 1, S0356: 1, L0717: 1, H0409: 1, H0486: 1, S0003: 1, H0615: 1, S0036: 1, H0163: 1, S0426: 1, L0662: 1, L0649: 1, L0650: 1, L0375: 1, L0806: 1, L0655: 1, L0661: 1, L0659: 1, L0791: 1, L0792: 1, L0666: 1, H0144: 1, H0658: 1, H0672: 1, S0152: 1, H0521: 1, L0754: 1, L0759: 1, L0591: 1, S0011: 1 and H0008: 1.		
HCOPB92	948608	126	99 - 260	2301	Tyr-37 to Ser-47.		H0670: 2		
HBIHO83	948708	127	171 - 389	2302	His-1 to Phe-8.		H0318: 1, H0150: 1 and L0385: 1.		
HWME044	948719	128	3 - 1343	2303	Met-1 to Leu-7, Ile-21 to Gln-33,		H0622: 2, H0422: 2, S0358: 1, H0497: 1,		

					Pro-48 to Glu-53, His-66 to Asn-71, Asp-107 to Glu-118, Val-122 to Leu-133, Gly-185 to Gly-194, Thr-249 to Ser-258, Lys-310 to Lys-328, Arg-367 to Phe-375, Ser-377 to Ala-382, Gln-389 to Trp-395.	H0039: 1, H0056: 1, L0662: 1, H0666: 1, L0596: 1 and S0242: 1.		
HFXJA96	949001	129	1 - 240	2304		AR039: 36, AR052: 33, AR053: 19, AR104: 18, AR096: 17, AR033: 15, AR089: 13, AR061: 11, AR055: 11, AR060: 9 L0749: 3, L0757: 3, H0169: 2, L0769: 2, L0805: 2, L0754: 2, L0759: 2, H0685: 1, S0282: 1, L0717: 1, H0428: 1, H0068: 1, S0422: 1, L0648: 1, L0521: 1, L0794: 1, L0803: 1, L0776: 1, L0656: 1, L0809: 1, L0790: 1, L0665: 1, S0148: 1, L0438: 1, H0659: 1, H0648: 1, L0748: 1, L0747: 1,		

HTLGV19	949574	130	3 - 758	2305	Tyr-10 to Gly-19, Pro-55 to Lys-72, Glu-89 to Ala-95, Asp-107 to Gly-113, Arg-140 to Thr-149.	L0750: 1, L0752: 1, H0543: 1 and S0412: 1. AR061: 4, AR096: 3, AR089: 3, AR055: 3, AR060: 2, AR104: 2, AR039: 2, AR033: 1, AR053: 1 H0555: 2, S0040: 1, S0444: 1, H0619: 1, H0618: 1, H0620: 1, H0284: 1 and H0063: 1.			
HMSAC18	950257	131	1214 - 297	2306		AR052: 11, AR089: 5, AR053: 5, AR096: 4, AR060: 4, AR061: 4, AR039: 4, AR033: 3, AR055: 3, AR104: 3 S0007: 3, L0758: 3, S0382: 2, L0805: 2, L0776: 2, H0666: 2, L0748: 2, S6024: 1, H0341: 1, H0331: 1, H0628: 1, H0038: 1, S0002: 1, L0770: 1, L0662: 1, L0766: 1, L0522: 1, L0659: 1, L0663: 1, H0519: 1, H0659: 1, L0602: 1, L0754: 1, L0749: 1, L0779: 1 and L0731: 1.			
HAPRB43	950475	132	3 - 536	2307	Phe-25 to Lys-31,	AR060: 10, AR055: 6,			

					Pro-60 to Lys-82, Tyr-122 to Asp-131, Lys-137 to Leu-144.	AR096: 6, AR061: 5, AR089: 4, AR033: 3, AR104: 3, AR052: 3, AR039: 3, AR053: 3 L0595: 7, L0803: 4, L0599: 4, S0356: 2, H0652: 2, L0771: 2, L0756: 2, L0779: 2, S0376: 1, H0486: 1, H0013: 1, H0575: 1, H0024: 1, H0356: 1, H0328: 1, L0369: 1, L0642: 1, L0794: 1, L0804: 1, L0809: 1, L0663: 1, L0665: 1, H0670: 1, H0648: 1, S0330: 1, L0752: 1, S0434: 1 and H0506: 1.		
HCCMD55	956895	133	199 - 17	2308	Gln-7 to Lys-23, Gln-49 to Glu-54.	AR055: 3, AR089: 3, AR053: 2, AR060: 2, AR039: 2, AR061: 1, AR033: 1, AR096: 1, AR104: 1, AR052: 0 S0358: 13, H0617: 8, S0444: 4, S0408: 2, S0374: 2, H0484: 1, S0376: 1, S0360: 1, S0410: 1, H0618: 1, H0231: 1, H0615: 1, S0368: 1, H0606: 1,		

HKBAL08	958219	134	108 - 1	2309	Leu-28 to Phe-35.	S0438: 1, H0647: 1, L0762: 1, L0772: 1, L0764: 1, L0376: 1, L0493: 1, L0783: 1, L0530: 1, H0659: 1, H0670: 1, H0648: 1, H0672: 1 and L0758: 1.		
HKADF15	960658	135	1 - 1551	2310	Ala-3 to Gly-12, Gly-23 to Ser-46, Arg-91 to Gly-97, Val-105 to Ala-116, Ser-173 to His-180, Gly-190 to Tyr-206, Lys-280 to Lys-285, Arg-347 to Asp-352, Glu-403 to Lys-410, Ser-430 to Phe-442.	L0747: 24, L0754: 18, H0309: 12, H0545: 12, H0031: 12, L0439: 11, H0428: 10, L0755: 10, H0251: 9, S0126: 9, L0744: 8, L0757: 8, L0588: 8, S0360: 7, S0010: 7, S0051: 7, H0252: 7, H0135: 7, L0361: 7, S0212: 6, H0544: 6, H0687: 6, H0494: 6, L0438: 6, H0658: 6, L0748: 6, L0752: 6, L0591: 6, H0662: 5, L0731: 5, L0759: 5, S0192: 5, S0040: 4, S0222: 4, H0081: 4, H0024: 4, H0644: 4, H0124: 4, H0551: 4, L0662: 4, L0659: 4, L0565: 4, L0751: 4, L0750: 4,	10q25.3- q26.2	263700, 601969, 601969

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HOGES5	961337	136	107 - 1483	2311	Ser-14 to Ser-23, His-30 to Ser-45, Gly-55 to Arg-67, Leu-71 to Leu-76, Leu-97 to Glu-102, Ser-118 to Pro-129, Pro-159 to Ala-179, Leu-189 to Ser-204.			L0803: 4, L0663: 3, S0420: 2, L0666: 2, H0435: 2, L0748: 2, L0777: 2, S0116: 1, S0132: 1, H0370: 1, L0021: 1, S0422: 1, L0664: 1, H0658: 1, S0328: 1, L0749: 1, S0436: 1 and L0097: 1.		
HKZAJ14	961458	137	135 - 1028	2312	Asn-4 to Lys-9, Arg-37 to Pro-42, Pro-79 to Ile-91, Asp-144 to Trp-155, Asp-189 to Gln-194, Ser-199 to Ser-204.			L0777: 3, L0754: 2, H0689: 1, H0660: 1 and L0755: 1.		

						Leu-208 to Asn-214, Leu-225 to Leu-230, Thr-234 to Lys-245, Asn-251 to Leu-260, Glu-285 to Asp-290.						
HLHAE14	962362	138	1915 - 1826	2313		Gly-15 to Glu-26.		L0748: 2, L0749: 2, H0024: 1 and H0051: 1.				
HBCJN16	965190	139	2 - 346	2314		Pro-15 to Arg-20, Leu-31 to Asp-36, Gly-50 to Glu-65, Phe-74 to Gly-81.						
HCGAF29	965372	140	2 - 1660	2315		Ser-1 to Gly-9, Ile-50 to Thr-55.		H0449: 1, H0393: 1, H0691: 1, H0547: 1 and H0711: 1.	1p12-p13	102770, 188540, 600234, 601414, 601691, 601691, 601691, 601691, 601718, 602094		
HAHEF81	967634	141	716 - 339	2316				L0774: 3, L0809: 2, H0483: 1, H0306: 1, H0599: 1, H0618: 1, H0083: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0369: 1, L0763: 1, L0643: 1, L0662: 1, L0794: 1, L0804: 1, L0790: 1,				

						L0665: 1, H0658: 1, H0696: 1, L0748: 1, L0780: 1 and L0757: 1.			
HBJAB02	967807	142	2 - 1267	2317		Val-35 to Leu-44, Gln-60 to Arg-67, Glu-72 to Asn-84, Glu-131 to Cys-152, Tyr-162 to Gly-175, Gly-184 to Gly-189, Ser-191 to Gly-223, Asp-261 to Arg-266, Asn-270 to Glu-275, Gln-282 to His-287, Tyr-302 to Asn-310, Lys-321 to Arg-327, Lys-330 to Ala-339, Lys-385 to Gly-391, Arg-402 to Lys-422.	5q23.3- q31.2	121050, 131400, 153455, 159000, 179095, 180071, 181460, 192974, 192974, 600807, 601596, 602089	
HOUCR01	968171	143	2 - 994	2318		Leu-98 to Cys-107, Ala-135 to Ala-142, Pro-233 to Lys-238, Gln-246 to Ala-257, Ser-294 to His-302.	AR033: 7, AR104: 7, AR055: 4, AR060: 3, AR096: 3, AR089: 3, AR061: 3, AR053: 2, AR052: 2, AR039: 1 and H0422: 1.		

HDTIG18	968454	144	334 - 1011	2319	Arg-1 to Gly-8, Pro-10 to Ser-72, Thr-80 to Gln-86, Pro-96 to Ala-102, Ser-137 to Val-146, Leu-207 to Asp-214, Gln-219 to Thr-226.	L0742: 4, S0007: 3, L0439: 3, S0040: 2, H0009: 2, L0769: 2, L5566: 2, L0764: 2, L0740: 2, L0758: 2, S0110: 1, S0010: 1, H0390: 1, S0049: 1, L0157: 1, H0563: 1, H0570: 1, H0123: 1, H0024: 1, H0252: 1, H0615: 1, H0617: 1, H0040: 1, H0509: 1, L0763: 1, L0794: 1, H0144: 1, H0691: 1, L0438: 1, H0547: 1, H0658: 1, H0539: 1, H0696: 1, H0555: 1, L0748: 1, L0750: 1 and L0777: 1.	L0766: 2, L0776: 2, L0438: 2, S0114: 1, S0007: 1, H0393: 1, S0222: 1, H0486: 1, H0009: 1, H0012: 1, H0014: 1, H0083: 1, H0687: 1, S0003: 1, H0628: 1, T0067: 1, H0100: 1, S0344: 1, H0521: 1, S0032: 1, L0748: 1, L0740: 1,	2q32.1	600258, 602087
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HBLGD30	968949	145	3951 - 1765	2320			Glu-20 to Lys-33, Ser-96 to His-109, Asn-147 to Val-166, Glu-188 to Ala-194, Ala-231 to Lys-240, Ala-267 to Lys-283, Met-291 to Gly-297, Arg-332 to Thr-338, Thr-365 to Tyr-377, Gln-381 to Ser-389, Glu-406 to Lys-417, Arg-462 to Glu-467, Ile-525 to Asp-535, Leu-595 to Glu-615, Phe-667 to Tyr-675, Gln-722 to Gly-729.		H0574: 6, L0362: 6, H0510: 5, L0666: 5, L0665: 4, S0358: 3, H0670: 3, H0013: 2, H0421: 2, H0046: 2, S0438: 2, L0775: 2, L0746: 2, L0756: 2, L0581: 2, H0431: 1, H0004: 1, H0014: 1, H0015: 1, S0338: 1, S0003: 1, L0456: 1, S0440: 1, L0770: 1, L0803: 1, L0525: 1, L0607: 1, L0664: 1, H0593: 1, H0683: 1, H0658: 1, L0755: 1 and S0276: 1.	3q23-q25	106165, 110100, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 203500, 222900, 276902, 601199, 601199, 601199, 601682
HFIHK04	969387	146	580 - 825	2321			Pro-16 to Pro-21, Ser-33 to Gly-38.		L0747: 5, H0318: 3, H0617: 3, L0749: 3, L0776: 2, H0483: 1, H0615: 1, H0039: 1, L0055: 1, L0769: 1, L0521: 1, L0766: 1, L0375: 1, L0809: 1,		

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HODIL24	969841	147	7 - 798	2322				H0615: 6, L0766: 3, L0779: 2, L0777: 2, H0556: 1, S0222: 1, H0438: 1, H0492: 1, H0013: 1, H0156: 1, H0052: 1, H0561: 1, S0440: 1, S0150: 1, H0538: 1, L0369: 1, L0371: 1, L0769: 1, L0805: 1, L0659: 1, L0647: 1, S0374: 1, H0518: 1, S0152: 1, L0740: 1, L0756: 1, L0755: 1, L0731: 1, H0445: 1, S0026: 1 and H0653: 1.			
HE8NQ16	970046	148	2 - 1105	2323				L0439: 6, L0756: 5, L0779: 5, L0777: 5, L0759: 5, L0776: 4, H0620: 3, L0747: 3, L0755: 3, S0442: 2, S0358: 2, H0615: 2, L0770: 2, L0768: 2, H0144: 2, S0374: 2, L0748: 2, L0740: 2, L0745: 2, L0750: 2,			

HOFMS34	973010	149	27 - 1019	2324	Gly-9 to Gln-19, Pro-36 to Gly-41, Ala-112 to Ala-123, Asp-151 to Arg-157, Ala-199 to Asp-211.	L0599: 2, S0134: 1, S0222: 1, H0642: 1, H0013: 1, H0156: 1, S0010: 1, H0052: 1, H0596: 1, H0083: 1, S6028: 1, H0687: 1, S0250: 1, S0003: 1, S0214: 1, H0428: 1, H0622: 1, H0644: 1, H0038: 1, H0269: 1, T0042: 1, H0646: 1, L0369: 1, L0762: 1, L0796: 1, L0800: 1, L0662: 1, L0794: 1, L0774: 1, L0775: 1, L0659: 1, L0783: 1, L0793: 1, H0683: 1, H0435: 1, H0648: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, H0696: 1, S0044: 1, H0631: 1, L0749: 1, L0753: 1, L0757: 1, S0434: 1 and L0485: 1.		
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HOFB11	973505	150	3 - 293	2325	Pro-70 to Cys-76.	AR096: 11, AR089: 6, AR053: 6, AR060: 5, AR104: 5, AR033: 3, AR039: 3, AR055: 2, AR061: 1 H0415: 2	1p31	180069, 180069, 180069, 201450, 248610, 600309, 601676, 602522
HTLHN94	974667	151	306 - 812	2326	His-8 to Gly-18.	AR039: 26, AR055: 18, AR033: 15, AR053: 14, AR052: 13, AR089: 12, AR060: 11, AR104: 11, AR096: 10, AR061: 8 H0521: 185, H0522: 75, H0046: 37, S0360: 25, H0580: 24, H0585: 22, H0575: 22, L0599: 21, H0657: 16, H0255: 15, H0486: 15, L0664: 15, H0641: 14, S0376: 12, H0581: 12, L0751: 12, H0650: 11, H0087: 10, S0002: 10, H0638: 9, H0264: 9, H0509: 9, L0769: 9, H0445: 9, H0656: 8, S0358: 8, H0617: 8, L0748: 8, L0750: 8, L0659: 7, H0658: 7, H0672: 7,		

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HLDRT31	975754	152	37 - 585	2327				AR061: 16, AR060: 7, AR039: 5, AR089: 4, AR096: 3, AR104: 2, AR033: 1, AR055: 1, AR053: 1 H0199: 2, H0246: 2, H0197: 1, H0510: 1 and H0144: 1.			
HWLHW86	975771	153	5 - 1186	2328	Ser-1 to Gly-16, Pro-26 to Gly-31, Thr-40 to Gln-46, Pro-59 to Ser-66, Pro-69 to Ser-80, Val-120 to Cys-126, Lys-157 to Gly-166, Gln-169 to Tyr-175, Arg-205 to Glu-212, His-230 to Leu-242, Gln-277 to Asn-285.			AR060: 12, AR039: 8, 4q AR089: 7, AR096: 1, AR061: 1, AR033: 0, AR053: 0, AR055: 0 S0408: 32, S0444: 21, S0442: 20, S0360: 20, L0665: 19, S0406: 18, S0436: 18, S0358: 17, L0666: 17, S0440: 15, L0752: 13, L0663: 11, S0376: 10, S0374: 10, L0662: 9, L0646: 8, H0672: 8, L0596: 8, L0601: 8, S0354: 6, L0664: 6, H0648: 6, L0777: 6, L0774: 5,			

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HOFNM53	976051	154	3 - 1589	2329	Val-9 to Glu-22, Leu-48 to Gln-53, Ser-64 to Asn-74, Pro-76 to Arg-83, Thr-118 to Gly-126.			AR104: 6, AR053: 5, AR089: 5, AR033: 5, AR039: 4, AR055: 4, AR060: 4, AR096: 3, AR061: 1, AR052: 0 H0415: 4			
HDPSE86	976207	155	1 - 1344	2330	Pro-30 to Thr-35, Ala-81 to Pro-86, Gly-140 to Thr-151, Ala-157 to Gly-162, Arg-195 to Val-209, Arg-236 to Ser-245.			AR053: 17, AR089: 16, AR033: 12, AR060: 12, AR039: 12, AR096: 10, AR104: 9, AR055: 9, AR061: 7 H0424: 2, H0689: 2, H0318: 1, S0036: 1, L0665: 1, H0684: 1, H0521: 1 and H0555: 1.	12q23-q24	113100, 124200, 147440, 158590, 160781, 163950, 163950, 235800, 251170, 276710, 600175, 601517	
HHFOE18	976216	156	1 - 1275	2331	Thr-1 to Thr-33.			L0659: 7, H0486: 4,			

HHFNH27	976968	157	11 - 604	2332	Asp-1 to Ser-12, Glu-15 to Ala-29, Glu-40 to Lys-56, Ile-131 to Asp-150, Leu-177 to Asp-183.	L0748: 4, L0747: 4, H0328: 3, L0800: 3, H0050: 2, H0135: 2, H0059: 2, L0771: 2, L0790: 2, L0750: 2, L0777: 2, L0759: 2, H0624: 1, H0170: 1, H0717: 1, H0663: 1, L0005: 1, H0619: 1, H0645: 1, H0455: 1, H0013: 1, S0010: 1, S6028: 1, H0039: 1, H0031: 1, H0598: 1, H0102: 1, L0598: 1, L0763: 1, L0761: 1, L0803: 1, L0791: 1, L0666: 1, L0565: 1, S0126: 1 and L0749: 1.	...	
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	S0126: 3, H0670: 3, H0648: 3, H0543: 3, H0170: 2, S0376: 2, S0360: 2, S0007: 2, H0619: 2, H0393: 2, H0486: 2, H0156: 2, H0596: 2, H0046: 2, H0014: 2, H0059: 2, T0004: 2, H0647: 2, L0521: 2, L0375: 2, L0517: 2, H0659: 2, H0658: 2, H0660: 2, H0672: 2, S0380: 2, H0521: 2, S0044: 2, H0576: 2, L0747: 2, L0485: 2, L0595: 2, L0362: 2, S0026: 2, H0624: 1, S0180: 1, S0212: 1, H0663: 1, H0305: 1, H0459: 1, S0418: 1, S0420: 1, S0045: 1, S0046: 1, H0351: 1, S0222: 1, H0392: 1, H0249: 1, H0643: 1, H0331: 1, H0618: 1, T0071: 1, H0581: 1, H0421: 1, H0263: 1, L0040: 1, H0546: 1, H0009: 1, H0123: 1, H0050: 1,					
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HMMBZ81	977264	158	551 - 357	2333			H0444: 1			
HSLGF32	977704	159	2 - 301	2334	Arg-1 to Arg-45, Glu-47 to Arg-77, Asp-79 to Ser-100.		L0748: 6, L0777: 4, H0685: 2, L0599: 2, H0575: 1, S0010: 1, H0421: 1, H0169: 1, H0264: 1, H0413: 1, L0769: 1, L0646: 1, L0803: 1, L0653: 1, L0776: 1, L0792: 1, H0659: 1, H0658: 1, S3014: 1, S0028: 1, L0751: 1 and L0779: 1.			
HEEAH23	978593	160	1 - 123	2335			H0549: 1, S0222: 1, H0266: 1, H0428: 1 and S0370: 1.			
HODFU73	978812	161	179 - 652	2336	Gly-85 to His-97, Gly-125 to Gly-130.		L0519: 5, L0756: 5, L0731: 5, L0665: 4, L0717: 3, S0474: 3, L0794: 3, L0663: 3, H0547: 3, H0682: 3,	2p14-pl3	203800, 602404	

HNBUA49	978998	162	1399 - 353	2337					H0660: 3, H0615: 2, H0551: 2, L0650: 2, L0805: 2, L0659: 2, L0809: 2, L0666: 2, L0439: 2, L0740: 2, L0745: 2, L0750: 2, H0352: 2, H0411: 1, H0431: 1, H0590: 1, L0738: 1, H0015: 1, H0071: 1, S6028: 1, H0328: 1, H0688: 1, H0039: 1, H0622: 1, H0591: 1, H0264: 1, S0422: 1, L0638: 1, L0662: 1, L0803: 1, L0375: 1, L0657: 1, L0791: 1, L0664: 1, H0144: 1, L0352: 1, H0690: 1, H0658: 1, H0670: 1, H0666: 1, L0754: 1, L0746: 1, L0777: 1, L0755: 1 and S0412: 1. L0754: 3, L0591: 3, H0659: 2, L0748: 2, H0663: 1, H0662: 1, S0354: 1, S0376: 1, L0021: 1, S6028: 1, H0616: 1, T0067: 1, S0422: 1, L0520: 1,
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HVVDU73	979346	163	2 - 1603	2338		Val-1 to Gly-7, Ala-10 to Ser-15, Ala-32 to Ala-75, Pro-93 to Asp-101, Arg-107 to Gln-117, Glu-133 to Ser-138, Ile-157 to Pro-170, Arg-181 to Glu-192, Ser-200 to Glu-209, Glu-239 to Val-249, Glu-287 to Glu-305, Ala-320 to Arg-328, Pro-363 to Arg-389, Lys-396 to Leu-406, Arg-433 to Gly-442, Ser-470 to Asn-481, Arg-498 to Ser-528.	Val-1 to Gly-7, Ala-10 to Ser-15, Ala-32 to Ala-75, Pro-93 to Asp-101, Arg-107 to Gln-117, Glu-133 to Ser-138, Ile-157 to Pro-170, Arg-181 to Glu-192, Ser-200 to Glu-209, Glu-239 to Val-249, Glu-287 to Glu-305, Ala-320 to Arg-328, Pro-363 to Arg-389, Lys-396 to Leu-406, Arg-433 to Gly-442, Ser-470 to Asn-481, Arg-498 to Ser-528.	H0046: 9, H0494: 6, S0358: 4, H0622: 2, H0662: 1, S0356: 1, H0549: 1, H0575: 1, H0081: 1, H0646: 1, L0761: 1, L0800: 1, H0672: 1, S0152: 1, H0521: 1, H0555: 1, L0748: 1, L0777: 1 and L0601: 1.	1q25.1- q32.3	145001, 145260, 150292, 208250, 600759, 600995, 601652, 601975	
HHESX72	979468	164	136 - 480	2339		Tyr-28 to Ser-34, Leu-76 to Gln-83.		L0748: 3, S0380: 2, H0581: 1, H0477: 1, S0126: 1 and H0543: 1.			

HOCYP88	979547	165	136 - 939	2340	Arg-38 to Lys-44, Lys-65 to Pro-72, Pro-96 to Tyr-102, Val-117 to Tyr-124, Leu-140 to Gly-154, Pro-167 to Trp-174, Val-180 to Tyr-185, Pro-191 to Tyr-196, Pro-199 to Thr-204, Gln-238 to Ala-244, Val-255 to Val-262.	H0553: 2, H0519: 2, L0731: 2, S0192: 2, S0134: 1, H0306: 1, H0375: 1, H0292: 1, S0144: 1, L0794: 1, L0766: 1, L0775: 1, L0809: 1, H0144: 1, S0126: 1, H0660: 1, H0672: 1, H0521: 1 and S0260: 1.	2p13	203800, 602404
HOGDC64	979666	166	164 - 769	2341		H0521: 53, S0002: 17, L0809: 13, S0360: 12, H0522: 12, H0580: 11, L0766: 11, S0426: 10, S0278: 9, H0618: 9, L0758: 8, H0556: 7, H0581: 7, L0439: 7, L0731: 7, H0253: 6, H0038: 6, L0771: 6, L0794: 6, L0805: 6, L0518: 6, L0666: 6, L0748: 6, H0553: 5, L0764: 5, L0659: 5, L0779: 5, H0265: 4, H0650: 4, S0408: 4, S0344: 4, L0667: 4, L0776: 4, L0759: 4, L0596: 4, L0604: 4, L0362: 4, H0486: 3,	17q21-q23	106180, 109270, 109270, 109270, 109270, 109270, 109270, 113705, 113705, 138700, 139250, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 150200,

H0575: 3, H0052: 3, H0457: 3, H0674: 3, H0616: 3, L0664: 3, H0710: 3, L0747: 3, S0026: 3, H0542: 3, H0543: 3, S0134: 2, S0218: 2, S0444: 2, H0619: 2, S0222: 2, H0438: 2, H0592: 2, S0010: 2, S0474: 2, H0123: 2, H0014: 2, H0083: 2, H0673: 2, T0067: 2, L0638: 2, L0372: 2, L0646: 2, L0768: 2, L0804: 2, L0774: 2, L0655: 2, L0783: 2, H0144: 2, H0697: 2, H0702: 2, L0438: 2, H0658: 2, H0518: 2, L0743: 2, L0744: 2, L0749: 2, L0756: 2, L0608: 2, L0601: 2, H0624: 1, H0394: 1, H0685: 1, S6024: 1, H0583: 1, L0785: 1, S0282: 1, H0663: 1, H0306: 1, H0589: 1, S0442: 1, S0358: 1, S0376: 1, H0676: 1, H0610: 1,	154275, 168610, 171190, 176705, 176960, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844
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HSIEA14	980139	167	456 - 683	2342	Pro-46 to Lys-53.		AR039: 4, AR096: 1, AR053: 1, AR060: 1, AR089: 1, AR033: 1, AR061: 1, AR055: 0, AR104: 0 H0036: 1		
HSPSY43	980269	168	883 - 1659	2343	Leu-32 to Glu-41, Asn-67 to His-72, Glu-96 to Thr-105, Phe-122 to Leu-130, Glu-151 to Glu-157, Val-165 to Gly-171, Arg-185 to Ile-196, Ser-205 to Leu-216, Leu-220 to Ala-225, Tyr-235 to Leu-243.	L0439: 17, H0013: 16, T0010: 13, S0010: 10, H0052: 10, L0754: 10, S0222: 9, L0743: 8, S0001: 7, H0644: 6, H0144: 6, L0662: 5, L0659: 5, H0547: 5, H0658: 5, L0742: 5, L0591: 5, H0657: 4, S0007: 4, H0441: 4, L0351: 4, S0344: 4, L0741: 4, S0046: 3, H0351: 3, H0575: 3, S0346: 3, H0178: 3,	9q33-q34	125270, 125270, 128100, 137350, 146150, 191100, 215700, 223360, 223900, 253800, 253800, 268900, 601850	

				S6028: 3, S0250: 3, S0036: 3, H0090: 3, H0040: 3, L0543: 3, L0438: 3, H0539: 3, L0745: 3, L0750: 3, S0031: 3, H0445: 3, L0596: 3, H0542: 3, S6024: 2, H0294: 2, T0049: 2, H0650: 2, H0656: 2, S0212: 2, S0282: 2, H0255: 2, H0662: 2, H0619: 2, S0300: 2, H0587: 2, T0082: 2, H0618: 2, S0049: 2, H0194: 2, H0123: 2, H0012: 2, H0266: 2, H0615: 2, H0553: 2, L0455: 2, H0163: 2, H0264: 2, H0488: 2, S0038: 2, S0112: 2, L0372: 2, L0766: 2, L0649: 2, L0664: 2, H0520: 2, H0519: 2, L0355: 2, S0406: 2, S0027: 2, L0744: 2, L0748: 2, L0740: 2, L0751: 2, S0434: 2, L0588: 2, L0605: 2, L0599: 2, L0361: 2, H0423: 2,
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HSXBH24	981029	169	220 - 2199	2344	Ser-11 to Gly-21, Cys-47 to Leu-61, Ser-82 to Tyr-88, Cys-182 to Tyr-187, Trp-268 to Asp-285.	AR089: 2, AR060: 2, AR033: 2, AR096: 1, AR061: 1, AR039: 0, AR104: 0, AR055: 0, AR053: 0 H0261: 1, H0370: 1, H0559: 1, H0013: 1,		
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HOFAE61	981108	170	2 - 505	2345		Lys-10 to Gly-21.	H0415: 1 and H0414: 1.			
HCFOF82	981272	171	2 - 901	2346		Trp-1 to Lys-6.	AR096: 3, AR033: 2, AR053: 2, AR089: 2, AR039: 2, AR060: 2, AR104: 1, AR061: 1, AR055: 1, AR052: 0 L0766: 3, L0777: 3, L0768: 2, L0748: 2, L0757: 2, L0759: 2, L0596: 2, T0060: 1, S0010: 1, H0251: 1, H0594: 1, S0214: 1, H0328: 1, H0615: 1, H0428: 1, H0674: 1, H0040: 1, H0412: 1, L0763: 1, L0803: 1, L0653: 1, L0666: 1, L0664: 1, S0028: 1, L0751: 1, H0423: 1 and H0506: 1.			
HOCMT79	981309	172	421 - 1431	2347		Thr-1 to Asp-12, Arg-27 to Asp-35, Arg-84 to Asp-89, Leu-93 to Thr-99, Pro-104 to Lys-113,	H0618: 12, H0052: 6, L0439: 6, H0253: 5, L0665: 4, H0013: 3, L0766: 3, L0775: 3, L0664: 3, L0742: 3,	5p		

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HKAEI03	981319	173	1 - 405	2348			H0682: 1, H0539: 1, H0518: 1, H0521: 1, H0436: 1, L0741: 1, L0743: 1, L0757: 1, S0031: 1, L0595: 1, H0542: 1 and H0423: 1.	1p11.1-13.1	102770, 201810, 601414, 601691, 601691, 601691, 601691, 601718, 602094	
HOCPO31	981593	174	330 - 470	2349			H0087: 2, H0660: 1 and H0672: 1.			
HAOTG88	981606	175	229 - 2	2350	Asn-1 to Lys-6.		H0686: 1, H0685: 1 and S0053: 1.			
HVCAH21	981768	176	2 - 616	2351	Ala-1 to Ala-12, Cys-57 to Tyr-65, Glu-76 to Asp-82, Arg-100 to Pro-105, Asp-110 to Pro-126, Cys-129 to Ala-139, Lys-147 to Pro-172, Pro-182 to Asp-188, Arg-199 to Met-205.	Ala-1 to Ala-12, Cys-57 to Tyr-65, Glu-76 to Asp-82, Arg-100 to Pro-105, Asp-110 to Pro-126, Cys-129 to Ala-139, Lys-147 to Pro-172, Pro-182 to Asp-188, Arg-199 to Met-205.	8q13.3	214400, 600415, 601653, 601653, 602476		

S0360: 2, S0278: 2, L0622: 2, S0010: 2, H0251: 2, H0408: 2, T0023: 2, T0006: 2, T0067: 2, H0509: 2, L0646: 2, L0766: 2, L0381: 2, L0774: 2, L0806: 2, L0526: 2, L0518: 2, L0665: 2, H0689: 2, H0658: 2, S0378: 2, H0710: 2, L0754: 2, L0750: 2, L0731: 2, L0590: 2, L0591: 2, L0485: 2, H0543: 2, H0265: 1, S6024: 1, H0657: 1, S0212: 1, H0661: 1, H0663: 1, H0638: 1, S0420: 1, S0354: 1, S0376: 1, S0408: 1, S0132: 1, H0393: 1, H0282: 1, H0299: 1, H0333: 1, H0643: 1, H0574: 1, L0623: 1, H0486: 1, T0060: 1, H0250: 1, T0115: 1, T0110: 1, H0530: 1, H0012: 1, H0373: 1, H0030: 1, H0553: 1, H0673: 1, H0674: 1,						
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HFPCK56	981812	177	1946 - 1818	2352				H0708: 1, H0090: 1, H0372: 1, H0412: 1, H0059: 1, T0042: 1, H0512: 1, S0370: 1, S0372: 1, H0633: 1, H0529: 1, L0520: 1, L0762: 1, L0768: 1, L0387: 1, L0522: 1, L0803: 1, L0651: 1, L0653: 1, L0558: 1, L0783: 1, L0382: 1, L0663: 1, S0053: 1, H0691: 1, H0593: 1, H0659: 1, H0670: 1, H0660: 1, H0666: 1, H0672: 1, S0328: 1, S0330: 1, H0539: 1, S0380: 1, H0518: 1, S3014: 1, S0027: 1, L0747: 1, L0752: 1, L0753: 1, L0755: 1, H0445: 1, S0434: 1, L0581: 1, L0599: 1, L0361: 1, H0423: 1, H0422: 1 and S0446: 1.		
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HAOSJ58	981859	178	3 - 482	2353	His-1 to Val-14.	H0156: 1, H0599: 1, H0590: 1, H0253: 1, H0390: 1, S0049: 1, H0009: 1, H0178: 1, H0071: 1, T0010: 1, H0252: 1, H0615: 1, T0006: 1, H0033: 1, H0424: 1, H0032: 1, H0124: 1, S0142: 1, L0638: 1, L0761: 1, L0641: 1, L0768: 1, L0774: 1, L0775: 1, L0657: 1, L0636: 1, L0517: 1, L0518: 1, L0665: 1, H0144: 1, H0659: 1, H0670: 1, H0660: 1, H0696: 1, H0626: 1, S0432: 1, S0027: 1, L0742: 1, L0750: 1, L0757: 1 and S0011: 1.		
						L0740: 4, L0749: 4, L0794: 3, L0766: 3, H0686: 2, L0662: 2, L0747: 2, H0663: 1, S0420: 1, S0358: 1, L0717: 1, H0013: 1, L0638: 1, L0761: 1, L0364: 1, L0803: 1, L0657: 1, L0526: 1.		

							L0787: 1, L0665: 1, L0438: 1, L0759: 1 and L0592: 1.			
HOPJT48	981862	179	348 - 217	2354			H0685: 1, L0623: 1 and H0684: 1.			
HCFAV61	981914	180	3 - 1091	2355	Arg-1 to Ile-7, Gly-22 to Lys-42, Ser-52 to Glu-59, Leu-80 to Asp-87, Lys-107 to Thr-115, Trp-123 to Glu-131, Tyr-148 to Glu-155.		L0766: 5, L0747: 4, L0750: 4, L0777: 4, S0046: 2, H0486: 2, L0769: 2, L0805: 2, H0547: 2, L0749: 2, L0752: 2, L0759: 2, L0590: 2, S0026: 2, H0624: 1, H0686: 1, H0341: 1, S0358: 1, S0360: 1, S0045: 1, H0549: 1, H0587: 1, L0157: 1, H0566: 1, H0057: 1, H0320: 1, H0051: 1, H0687: 1, S0003: 1, H0428: 1, H0090: 1, L0794: 1, L0774: 1, L0806: 1, L0653: 1, L0655: 1, L0657: 1, L0659: 1, L0791: 1, L4501: 1, L0666: 1, L0664: 1, H0701: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, H0478: 1, L0780: 1, L0755: 1,			

HPDWN44	981956	181	114 - 659	2356	Gln-79 to Tyr-86, Ile-96 to Ser-101, Pro-119 to Ser-126, Gln-162 to Gln-167.	L0731: 1, L0758: 1, H0595: 1, L0592: 1, H0653: 1, H0665: 1 and H0422: 1. H0150: 26, S0003: 24, S0144: 14, S0278: 12, S0344: 12, L0748: 12, S0358: 10, H0046: 10, H0620: 10, S0214: 10, L0740: 9, H0521: 8, L0588: 8, H0545: 7, L0754: 7, H0575: 6, H0494: 6, S0126: 6, H0662: 5, H0031: 5, S0142: 5, L0752: 5, S0360: 4, H0309: 4, H0012: 4, H0687: 4, H0163: 4, H0038: 4, H0040: 4, H0672: 4, L0744: 4, L0755: 4, L0758: 4, L0599: 4, S0212: 3, H0580: 3, H0550: 3, T0082: 3, H0544: 3, H0024: 3, H0266: 3, H0428: 3, H0616: 3, T0067: 3, L0519: 3, L0532: 3, H0689: 3, S0380: 3, L0731: 3, S0026: 3, H0624: 2, S0040: 2.	14	
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HOVJY54	982032	182	16 - 372	2357	Gly-1 to His-11, Pro-26 to Ser-34, Gly-50 to Glu-67, Gly-86 to Pro-91.	L0809: 10, H0150: 4, L0769: 4, L0804: 4, L0757: 4, H0617: 3, L0779: 3, H0662: 2, L0005: 2, S0444: 2, H0545: 2, H0135: 2, H0494: 2, L0803: 2, L0783: 2, L0663: 2, H0547: 2, L0751: 2, L0777: 2, H0484: 1, H0661: 1, S0420: 1, S0354: 1, S0358: 1, H0619: 1, H0587: 1, H0427: 1, H0581: 1, H0196: 1, H0309: 1, H0123: 1, H0081: 1, H0594: 1, S0312: 1, H0688: 1, L0483: 1,	7q32	180105, 190900, 222800, 246900
						H0448: 1, S0432: 1, S3014: 1, S0028: 1, S0032: 1, L0751: 1, L0753: 1, S0031: 1, H0444: 1, L0596: 1, L0589: 1, L0362: 1, L0603: 1, S0011: 1, H0668: 1, H0653: 1, H0667: 1, S0276: 1, H0542: 1, H0423: 1, H0422: 1, S0458: 1, H0506: 1 and H0293: 1.		

HLDOG74	982042	183	1 - 756	2358	Pro-37 to Ser-45, Asp-64 to Thr-69, Asp-151 to Gln-157, Arg-191 to Lys-196.	H0510: 1	H0033: 1, H0424: 1, H0213: 1, H0316: 1, H0163: 1, H0087: 1, H0412: 1, H0059: 1, H0100: 1, T0041: 1, S0438: 1, S0144: 1, S0344: 1, L0770: 1, L0761: 1, L0800: 1, L0773: 1, L0662: 1, L0794: 1, L0375: 1, L0651: 1, L0379: 1, L0659: 1, L0383: 1, L0789: 1, H0520: 1, H0521: 1, H0696: 1, S0406: 1, S3014: 1, S0206: 1, L0747: 1, L0756: 1, L0780: 1, L0752: 1, L0601: 1, H0667: 1, H0542: 1 and H0543: 1.	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
HE8MM52	982197	184	19 - 1146	2359	Gly-10 to Gly-16, Pro-25 to Gly-30.	AR033: 3, AR061: 3, AR096: 3, AR089: 3, AR055: 2, AR060: 2,			

						AR039: 1, AR104: 0, AR052: 0, AR053: 0 S0414: 7, L0794: 4, H0651: 4, L0439: 3, L0749: 3, H0647: 2, L0766: 2, L0803: 2, L0659: 2, L0756: 2, L0599: 2, H0657: 1, H0645: 1, S0222: 1, H0574: 1, H0632: 1, H0486: 1, H0013: 1, H0014: 1, H0355: 1, S6028: 1, S0003: 1, H0673: 1, L0564: 1, S0438: 1, L0764: 1, L0804: 1, L0748: 1, L0754: 1, L0750: 1, L0779: 1, L0581: 1, L0608: 1, S0196: 1 and H0506: 1.			
HJBCC19	982465	185	2 - 949	2360	Cys-1 to Gly-6.	L0766: 5, L0749: 5, L0803: 3, L0809: 3, L0758: 3, S0007: 2, H0124: 2, H0135: 2, L0771: 2, L0744: 2, L0740: 2, L0747: 2, L0779: 2, L0600: 2, H0556: 1, S0116: 1, S0444: 1, H0393: 1, H0351: 1, L0118: 1,			

HODAA93	982618	186	3 - 899	2361	Val-50 to His-55, Ser-75 to Cys-81, Lys-98 to Lys-104.	H0038: 1, H0040: 1, T0042: 1, S0426: 1, L0763: 1, L0662: 1, L0775: 1, L0776: 1, L0659: 1, L0647: 1, L0666: 1, H0670: 1, L0439: 1, L0752: 1, L0595: 1 and H0721: 1. H0328: 1, H0615: 1, L0804: 1 and H0677: 1.	Xq28	300031, 300044, 300048, 300049, 300049, 300055, 300100, 300100, 300104, 300126, 301201, 301590, 302060, 302060, 302060, 302060, 302960, 303700, 303800, 303900, 304800, 305900,
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HSPSI74	982764	187	91 - 705	2362	Pro-34 to Ser-42, Cys-82 to Lys-89, Ser-147 to Lys-156, Ser-198 to Cys-205.		3q21-q25	106165, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500,

HCEHZ42	983008	188	2115 - 2342	2363	Gly-12 to Pro-23, Gly-41 to Thr-47.	L0742: 11, L0439: 8, H0052: 5, L0794: 5, L0438: 5, S0222: 3, H0457: 3, H0135: 3, L0769: 3, L0768: 3, L0657: 3, L0666: 3, H0547: 3, H0423: 3, H0483: 2, S0354: 2, H0427: 2, H0581: 2, S0049: 2, H0494: 2, L0369: 2, L0662: 2, H0658: 2, L0752: 2, L0758: 2, L0592: 2, S0040: 1, H0650: 1, H0657: 1, L0427: 1, S0418: 1, S0358: 1, S0360: 1, H0580: 1, H0645: 1, H0550: 1, H0486: 1, L0309: 1, H0630: 1, H0687: 1, H0428: 1, H0622: 1,	222900, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682
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HDPVU15	983592	189	66 - 737	2364	Pro-16 to Gly-23, Ser-30 to Lys-38, Glu-44 to Cys-50, Pro-81 to Lys-86, Gly-135 to Gly-140, Arg-167 to Thr-176, Leu-192 to Phe-201, Pro-203 to Ser-209, His-216 to Asn-224.			H0553: 1, S0038: 1, H0560: 1, H0538: 1, L0638: 1, L0639: 1, L0646: 1, L0659: 1, L0526: 1, L0783: 1, L0809: 1, L0647: 1, H0519: 1, H0670: 1, H0651: 1, H0521: 1, S0013: 1, S0028: 1, L0741: 1, L0753: 1, L0755: 1, L0731: 1, H0445: 1, L0361: 1, L0366: 1 and H0543: 1.	3q27	109565, 109565, 142640, 228960, 261515, 600044
HT5GC28	984008	190	1 - 273	2365	Ala-1 to Asn-16, Thr-65 to Thr-74.			H0584: 1 and S0126: 1.	11	

HDABW50	984168	191	56 - 523	2366	Arg-21 to Gly-28, Pro-30 to Ser-36, Arg-54 to Arg-61, Gln-125 to Gly-130, Ala-140 to Gln-145.	S0412: 19, H0657: 7, L0748: 7, L0777: 7, H0039: 6, H0659: 6, L0749: 6, H0040: 5, L0655: 5, L0747: 5, L0438: 4, L0742: 4, L0779: 4, L0758: 4, L0599: 4, H0341: 3, S0376: 3, H0497: 3, L0471: 3, H0015: 3, H0687: 3, H0090: 3, L0769: 3, L0776: 3, L0659: 3, L0517: 3, L0664: 3, H0672: 3, L0740: 3, L0752: 3, L0588: 3, L0605: 3, L0608: 3, L0362: 3, H0686: 2, H0662: 2, S0354: 2, S0360: 2, H0559: 2, H0098: 2, H0318: 2, H0545: 2, H0644: 2, L0455: 2, H0135: 2, H0038: 2, S0002: 2, L0646: 2, L0764: 2, L0803: 2, L0375: 2, L0666: 2, S0330: 2, H0539: 2, S0152: 2, H0436: 2, L0755: 2, L0731: 2, L0759: 2, S0434: 2,	6q25.3-q26	100678, 147280, 167000, 173350, 173350, 173350, 180020, 600320, 600883, 602544
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H0543: 2, L0465: 2, H0170: 1, H0265: 1, H0556: 1, T0002: 1, H0656: 1, H0663: 1, S0348: 1, S0356: 1, S0444: 1, S0408: 1, S0046: 1, H0619: 1, H0393: 1, H0351: 1, H0431: 1, H0370: 1, H0586: 1, H0643: 1, H0257: 1, H0485: 1, T0060: 1, H0013: 1, H0069: 1, H0599: 1, H0575: 1, H0004: 1, S0010: 1, S0346: 1, H0374: 1, S0049: 1, H0052: 1, H0251: 1, H0309: 1, H0546: 1, H0046: 1, H0123: 1, S0051: 1, H0356: 1, H0510: 1, H0266: 1, S0250: 1, S0003: 1, H0615: 1, L0483: 1, H0031: 1, L0142: 1, L0055: 1, H0032: 1, H0673: 1, H0674: 1, H0124: 1, H0708: 1, H0316: 1, H0163: 1, H0616: 1, H0412: 1, H0413: 1, H0623: 1,	
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HAQBH11	985043	192	207 - 626	2367	Glu-12 to Arg-25, Leu-36 to Gly-41.	H0360: 12, L0747: 10, L0748: 7, S0007: 6, L0731: 6, L0769: 5, L0766: 5, L0749: 5, L0740: 4, L0751: 4, L0750: 4, L0779: 4, L0471: 3, L0776: 3, L0526: 3, L0666: 3, L0439: 3, H0686: 2, S0408: 2, H0625: 2, L0639: 2, L0646: 2, L0768: 2, L0774: 2, L0655: 2, L0542: 2, L0790: 2, H0659: 2, H0134: 2, L0777: 2, L0755: 2, H0170: 1, T0002: 1, H0685: 1, H0295: 1, S0114: 1, H0663: 1, H0125: 1, S0444: 1, S0360: 1, H0580: 1, S0046: 1, H0351: 1, H0331: 1, L0623: 1, H0244: 1, H0156: 1, T0048: 1, H0052: 1, H0083: 1, H0266: 1, H0328: 1, H0031: 1, H0038: 1, H0412: 1, T0041: 1, S0438: 1, S0440: 1, L0520: 1, L0371: 1,	H0360: 12, L0747: 10, L0748: 7, S0007: 6, L0731: 6, L0769: 5, L0766: 5, L0749: 5, L0740: 4, L0751: 4, L0750: 4, L0779: 4, L0471: 3, L0776: 3, L0526: 3, L0666: 3, L0439: 3, H0686: 2, S0408: 2, H0625: 2, L0639: 2, L0646: 2, L0768: 2, L0774: 2, L0655: 2, L0542: 2, L0790: 2, H0659: 2, H0134: 2, L0777: 2, L0755: 2, H0170: 1, T0002: 1, H0685: 1, H0295: 1, S0114: 1, H0663: 1, H0125: 1, S0444: 1, S0360: 1, H0580: 1, S0046: 1, H0351: 1, H0331: 1, L0623: 1, H0244: 1, H0156: 1, T0048: 1, H0052: 1, H0083: 1, H0266: 1, H0328: 1, H0031: 1, H0038: 1, H0412: 1, T0041: 1, S0438: 1, S0440: 1, L0520: 1, L0371: 1,	113721, 247200, 600059, 601545
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HMVA W42	985280	193	1047 - 727	2368					S0212: 1, H0592: 1 and H0052: 1.				
HAGDF03	985323	194	1 - 690	2369	Pro-27 to His-33.				L0779: 3, S0010: 2, H0581: 1, H0081: 1, L0770: 1, L0794: 1, H0689: 1, H0666: 1, S0330: 1, L0593: 1, S0424: 1 and H0506: 1.	4			
HOPKI29	985401	195	2 - 547	2370	Glu-4 to Gly-12, Gly-15 to Lys-21,				L0750: 11, S0026: 7, L0518: 6, L0752: 6,	12			

Lys-53 to Leu-59, Ala-113 to Asp-118, Glu-137 to Met-143, Thr-164 to Lys-170, Pro-175 to Glu-180.					L0588: 6, L0747: 5, L0758: 5, S0116: 4, L0769: 4, S0360: 3, H0599: 3, H0620: 3, H0059: 3, L0766: 3, L0775: 3, L0743: 3, L0731: 3, L0757: 3, H0543: 3, S0040: 2, T0049: 2, S0212: 2, H0305: 2, S0356: 2, S0358: 2, S0045: 2, S0278: 2, L0623: 2, S0003: 2, H0031: 2, H0412: 2, H0646: 2, S0142: 2, L0763: 2, L0764: 2, L0774: 2, L0776: 2, L0659: 2, L0789: 2, L0666: 2, S0126: 2, H0648: 2, H0694: 2, S3014: 2, L0754: 2, L0755: 2, H0445: 2, L0599: 2, S6024: 1, H0650: 1, L0808: 1, H0341: 1, H0484: 1, H0402: 1, H0638: 1, S0348: 1, S0376: 1, S0444: 1, H0440: 1, H0640: 1, H0409: 1, H0586: 1, L0586: 1, S0280: 1.
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	L0021: 1, S0010: 1, S0665: 1, H0318: 1, H0581: 1, H0251: 1, L0040: 1, H0231: 1, H0545: 1, L0471: 1, H0012: 1, H0024: 1, H0014: 1, H0373: 1, H0051: 1, S0025: 1, H0266: 1, H0267: 1, H0288: 1, S0022: 1, S0214: 1, H0112: 1, H0405: 1, H0169: 1, S0364: 1, S0366: 1, H0090: 1, H0087: 1, S0112: 1, T0041: 1, H0494: 1, H0509: 1, S0144: 1, S0422: 1, L0770: 1, L0373: 1, L0768: 1, L0364: 1, L0650: 1, L0784: 1, L0527: 1, L0657: 1, L0665: 1, S0052: 1, S0374: 1, S0122: 1, H0689: 1, H0684: 1, H0659: 1, S0328: 1, H0521: 1, S0406: 1, H0555: 1, S0027: 1, L0740: 1, L0749: 1, L0759: 1, H0444: 1, L0485: 1, L0604: 1,	
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							L0366: 1, H0668: 1, H0653: 1, S0192: 1 and H0506: 1.			
HJCA11	985580	196	391 - 1293	2371	Asp-23 to Ser-29, Lys-36 to Ala-48, Phe-66 to Arg-74, Gly-92 to Thr-98, Arg-137 to Asp-142, Met-155 to Ser-161.		L0471: 2, H0561: 2, H0543: 2, H0013: 1, H0090: 1, H0634: 1, H0551: 1 and H0560: 1.	2p16	126600, 126600, 136435, 160980, 600678	
HWAHA11	986078	197	1144 - 602	2372			AR061: 3, AR089: 3, AR096: 3, AR039: 2, AR060: 2, AR033: 1, AR104: 1, AR055: 1, AR052: 0, AR053: 0 L0751: 6, H0659: 4, H0657: 2, L0764: 2, L0655: 2, H0682: 2, H0521: 2, L0743: 2, L0749: 2, H0265: 1, T0049: 1, S0134: 1, H0255: 1, H0638: 1, S0358: 1, S0376: 1, H0637: 1, S0045: 1, H0549: 1, H0486: 1, T0060: 1, H0575: 1, H0581: 1, H0061: 1, H0266: 1, L0055: 1, H0068: 1, H0090: 1, H0551: 1, H0413: 1, S0142: 1, S0002: 1,			

								L0769: 1, L0775: 1, L0776: 1, L0657: 1, L0664: 1, H0658: 1, H0670: 1, H0648: 1, S0378: 1, L0779: 1, L0731: 1, L0601: 1 and H0423: 1.			
HSAMI43	986158	198	2 - 1477	2373		Glu-27 to Thr-33.		L0717: 2, H0660: 2, S0420: 1, S0376: 1, H0393: 1, H0013: 1, H0266: 1, H0038: 1, H0529: 1, L0800: 1, L0794: 1, L0766: 1, L0657: 1, L0666: 1, H0658: 1, H0626: 1, L0759: 1, H0665: 1, H0543: 1 and H0677: 1.			
HNFJH73	986165	199	1 - 609	2374		Ser-2 to Gly-7, Tyr-18 to Phe-26, Lys-39 to Gly-57, Gly-100 to Pro-106, Asn-109 to Ser-116, Tyr-119 to Ile-125, Pro-151 to Phe-157.		L0439: 10, L0740: 8, L0794: 7, L0805: 7, L0438: 6, H0539: 6, L0748: 6, L0754: 5, L0769: 4, L0776: 4, H0521: 4, H0615: 3, H0040: 3, H0100: 3, L0595: 3, H0624: 2, H0170: 2, H0656: 2, S0045: 2, H0013: 2, S0010: 2, H0051: 2, L0766: 2, L0774: 2, L0375: 2, L0806: 2,	3q28	165500, 600700	

HNTCH03	986328	200	57 - 248	2375	Val-15 to Pro-21, Leu-56 to Gln-64.	H0670: 2, H0648: 2, L0753: 2, L0731: 2, L0759: 2, L0589: 2, H0686: 1, S0040: 1, S0342: 1, L0005: 1, H0431: 1, H0333: 1, H0485: 1, H0486: 1, H0327: 1, H0546: 1, H0046: 1, H0009: 1, H0123: 1, H0012: 1, H0271: 1, H0039: 1, H0030: 1, H0644: 1, H0628: 1, H0032: 1, H0591: 1, H0058: 1, T0067: 1, S0450: 1, S0438: 1, L0770: 1, L0764: 1, L0381: 1, L0803: 1, L0661: 1, L0789: 1, H0144: 1, S0328: 1, H0540: 1, L0747: 1, L0749: 1, L0750: 1, L0779: 1, L0777: 1, L0757: 1, S0031: 1, H0445: 1, H0595: 1, L0599: 1, L0603: 1 and H0008: 1. L0663: 2, H0556: 1, H0686: 1, L0717: 1, L0764: 1, L0794: 1, L0656: 1, L0665: 1,		
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HSUAA20	986744	201	2 - 1321	2376	Val-36 to Gly-52, Asp-140 to Ser-148, Ser-158 to Thr-163, Arg-168 to Ala-175, Glu-196 to Arg-205, Ser-271 to Lys-276, Val-281 to Tyr-294, Arg-305 to Met-310, Cys-314 to Ile-324, Gln-326 to Tyr-345, Phe-356 to Trp-361, Leu-383 to Ala-390, Glu-412 to Ile-420.	S0374: 1, H0519: 1, H0659: 1, H0648: 1, L0748: 1, L0759: 1, S0436: 1 and L0608: 1, L0750: 12, L0747: 7, H0543: 7, L0748: 6, L0764: 3, H0539: 3, H0657: 2, L0785: 2, S0358: 2, H0266: 2, H0031: 2, L0766: 2, L0775: 2, L0783: 2, L0666: 2, L0663: 2, L0438: 2, H0435: 2, H0658: 2, H0670: 2, L0588: 2, H0542: 2, H0624: 1, S0342: 1, L0443: 1, L0808: 1, H0305: 1, L0481: 1, H0431: 1, H0438: 1, S0280: 1, L0021: 1, H0036: 1, H0004: 1, H0318: 1, N0006: 1, H0050: 1, L0471: 1, H0687: 1, S0003: 1, H0428: 1, L0455: 1, H0494: 1, H0625: 1, L0598: 1, L0763: 1, L0769: 1, L0761: 1, L0772: 1, L0641: 1, L0773: 1, L0662: 1,	17p13.3	113721, 247200, 600059, 601545
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HSPAD08	986767	202	809 - 1054	2377	Pro-32 to Ser-37, Arg-52 to Gly-63, Lys-66 to Gly-73.	L0378: 1, L0806: 1, L0776: 1, L0657: 1, L0659: 1, L0517: 1, L0809: 1, L0647: 1, L0532: 1, S0126: 1, H0689: 1, H0690: 1, H0659: 1, H0660: 1, S0328: 1, H0518: 1, H0134: 1, L0740: 1, L0754: 1, L0749: 1, L0759: 1, L0591: 1, L0608: 1, L0362: 1, L0366: 1, H0136: 1 and S0398: 1.			
						H0670: 4, S0408: 3, L0666: 3, L0665: 3, H0156: 1, H0615: 1, L0776: 1, L0527: 1, H0658: 1 and H0478: 1.	20q12-q13.2	118504, 118504, 131242, 139320, 139320, 139320, 139320, 139320, 600281, 600281, 602025	
HFKBA32	987018	203	1 - 618	2378	Phe-1 to Cys-10.	L0439: 7, L0438: 4, L0770: 3, L0809: 3, S0360: 2, H0011: 2, L0794: 2, H0672: 2, L0749: 2, L0756: 2, L0759: 2, S0046: 1,	20p12	112261, 176640, 176640, 176640, 236700, 601920	

HHFLU49	987071	204	50 - 745	2379	Val-23 to Gly-32.	H0437: 1, T0048: 1, S0050: 1, S0051: 1, H0687: 1, L0455: 1, H0100: 1, L0351: 1, L0769: 1, L0761: 1, L0768: 1, L0806: 1, L0659: 1, L0383: 1, L0666: 1, H0547: 1, H0539: 1, L0748: 1, L0747: 1, L0780: 1, L0731: 1, L0366: 1 and L0697: 1.	19q13.3	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 258501, 600040, 602225, 602225
						L0751: 4, S0126: 3, H0658: 2, L0741: 2, H0171: 1, T0002: 1, S0001: 1, H0619: 1, H0574: 1, H0618: 1, H0199: 1, H0057: 1, H0020: 1, H0201: 1, L0055: 1, H0038: 1, L0769: 1, L0646: 1, L0643: 1, L0794: 1, L0766: 1, L0774: 1, L0655: 1, L0659: 1, L0665: 1, H0703: 1, H0659: 1, S0028: 1, L0777: 1, L0780: 1, L0731: 1, L0758: 1, S0031: 1, L0599: 1, H0136: 1 and H0543: 1.		

HOENX16	987112	205	164 - 850	2380	Pro-3 to Val-18, Trp-21 to Gly-27.	L0805: 18, L0776: 16, L0751: 14, L0759: 10, L0770: 8, L0769: 6, L0758: 6, H0351: 4, L0803: 4, L0807: 4, L0754: 4, H0716: 3, S0250: 3, H0615: 3, H0644: 3, L0791: 3, L0793: 3, S0408: 2, H0013: 2, H0594: 2, H0591: 2, L0796: 2, L0521: 2, L0662: 2, L0794: 2, L0774: 2, L0518: 2, L0792: 2, L0666: 2, H0144: 2, H0670: 2, L0740: 2, L0779: 2, H0624: 1, S0342: 1, H0640: 1, H0369: 1, H0549: 1, H0486: 1, S0280: 1, L0021: 1, L0022: 1, S0010: 1, L0109: 1, H0024: 1, S0051: 1, H0428: 1, H0622: 1, H0032: 1, T0067: 1, H0059: 1, L0640: 1, L0763: 1, L0773: 1, L0659: 1, L0809: 1, L0788: 1, L0532: 1, L0665: 1, H0547: 1,	L0805: 18, L0776: 16, L0751: 14, L0759: 10, L0770: 8, L0769: 6, L0758: 6, H0351: 4, L0803: 4, L0807: 4, L0754: 4, H0716: 3, S0250: 3, H0615: 3, H0644: 3, L0791: 3, L0793: 3, S0408: 2, H0013: 2, H0594: 2, H0591: 2, L0796: 2, L0521: 2, L0662: 2, L0794: 2, L0774: 2, L0518: 2, L0792: 2, L0666: 2, H0144: 2, H0670: 2, L0740: 2, L0779: 2, H0624: 1, S0342: 1, H0640: 1, H0369: 1, H0549: 1, H0486: 1, S0280: 1, L0021: 1, L0022: 1, S0010: 1, L0109: 1, H0024: 1, S0051: 1, H0428: 1, H0622: 1, H0032: 1, T0067: 1, H0059: 1, L0640: 1, L0763: 1, L0773: 1, L0659: 1, L0809: 1, L0788: 1, L0532: 1, L0665: 1, H0547: 1,	6p22-p21	180297, 248611, 251000, 263200, 600211, 600701, 601690
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HTFOW71	987165	206	14 - 400	2381	Thr-1 to Ser-6.			L0766: 4, L0665: 4, L0754: 3, H0013: 2, H0052: 2, L0776: 2, H0144: 2, L0777: 2, L0622: 1, H0427: 1, S0344: 1, L0520: 1, L0774: 1, L0775: 1, L0527: 1, L0659: 1, L0666: 1, H0689: 1, H0682: 1, H0672: 1, H0522: 1, L0741: 1, L0750: 1, L0756: 1, L0758: 1 and S0424: 1.			
HTTAG03	987262	207	1270 - 68	2382	Pro-4 to Pro-27, Ala-35 to Arg-43, Asp-56 to Val-61.			L0439: 70, L0666: 20, L0748: 20, H0013: 15, L0663: 15, L0740: 15, L0754: 14, L0438: 12, L0769: 11, L0752: 11, H0046: 9, L0662: 9, L0776: 9, L0665: 9, H0547: 9, L0766: 8, H0670: 8, H0622: 7,			

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HNTNN89	987577	208	2 - 562	2383			Glu-134 to Val-139, Trp-147 to Lys-161, Ala-163 to Pro-172.	S0250: 4, S0358: 3, N0006: 3, H0620: 3, H0014: 3, H0656: 2, H0024: 2, L0776: 2, L0750: 2, S0212: 1, H0450: 1, H0549: 1, H0550: 1, H0575: 1, H0036: 1, H0590: 1, H0050: 1, L0471: 1, H0373: 1, H0628: 1, H0038: 1, H0551: 1, H0264: 1, H0100: 1, H0494: 1, H0509: 1, L0790: 1, H0520: 1, H0435: 1, H0521: 1, S0027: 1, S0032: 1, L0759: 1, S0434: 1, L0485: 1, L0595: 1, H0542: 1, H0543: 1 and S0021: 1.			
HRADQ96	987636	209	165 - 398	2384			Pro-5 to Gly-13, Gly-26 to Gly-34, Leu-49 to Glu-62, Gly-67 to Val-78.	L0758: 4, L0803: 3, L0779: 3, L0794: 2, L0776: 2, L0789: 2, H0555: 2, L0748: 2, L0731: 2, H0622: 1, L0800: 1, L0809: 1,	6p21.3	106300, 108800, 120290, 120290, 120810, 120820,	

									L0666: 1, H0670: 1, H0648: 1, L0745: 1, L0749: 1, L0759: 1 and L0596: 1.			142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
HLDCJ16	987808	210	93 - 776	2385	Asn-85 to Glu-91.				L0731: 29, L0662: 11, L0747: 11, S0003: 9, L0666: 9, L0779: 9, L0758: 9, L0809: 8, S0360: 7, S0132: 7, H0046: 7, L0752: 7, S0040: 6, S0358: 6, L0803: 6, L0659: 6, L0748: 6, L0777: 6, H0599: 5, L0471: 5,			

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HCOPH23	987900	211	268 - 603	2386			S0386: 1, H0670: 1 and 2q36 H0444: 1.	120070, 120131, 120131, 138030, 147545, 259900, 262000
HEEAQ78	988159	212	466 - 149	2387	Ala-9 to Phe-15, Gly-44 to Pro-52, Pro-100 to Lys-106.	H0549: 2, H0023: 2, H0024: 2, L0750: 2, H0624: 1, L0659: 1, L0809: 1, L0740: 1, L0747: 1 and L0731: 1.	17q23	106180, 138700, 139250, 150200, 154275, 176960, 249000, 253250
HOFNY16	988363	213	2 - 853	2388	Ala-1 to Thr-9, Arg-62 to Trp-77, Arg-176 to Pro-181, Val-191 to Leu-198, Lys-265 to Lys-272, Asn-276 to Val-283.	L0766: 5, L0755: 5, L0770: 4, L0659: 4, L0750: 4, L0752: 4, S0360: 3, L0764: 3, L0662: 3, L0774: 3, L0740: 3, L0731: 3, L0759: 3, S0132: 2, H0411: 2, H0188: 2, H0413: 2, L0598: 2, L0805: 2, L0782: 2, L0664: 2, H0144: 2, L0751: 2, L0749: 2, S0194: 2, H0624: 1, H0713: 1, S0218: 1, S0116: 1, H0663: 1,		

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HSLCX45	988441	214	1 - 1458	2389	His-11 to Pro-18,	S0436: 10, L0803: 6, 19q12		

Arg-40 to Asn-53.	H0046: 5, L0754: 5, L0362: 5, L0794: 4, L0766: 4, L0749: 4, L0779: 4, S0444: 3, L0805: 3, L0527: 3, H0648: 3, L0439: 3, L0740: 3, L0747: 3, L0750: 3, L0777: 3, L0752: 3, H0671: 2, S0360: 2, S0408: 2, H0486: 2, L0105: 2, T0067: 2, H0059: 2, H0652: 2, L0770: 2, L0641: 2, L0662: 2, L0655: 2, L0783: 2, L0793: 2, L0665: 2, L0438: 2, H0520: 2, H0435: 2, H0659: 2, S0136: 2, L0731: 2, L0758: 2, L0759: 2, S0424: 2, H0717: 1, S0402: 1, H0657: 1, H0254: 1, S0348: 1, S0442: 1, H0722: 1, S0132: 1, S0476: 1, H0640: 1, S0300: 1, L0717: 1, S0278: 1, S0222: 1, H0587: 1, H0156: 1, H0575: 1, T0082: 1, H0318: 1,
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HLMJB09	988499	215	249 - 506	2390	Gln-10 to Lys-15, Pro-28 to Gln-33.	H0255: 1, H0002: 1, H0266: 1, L0803: 1, H0660: 1, L0751: 1 and L0777: 1.			
HOVEF60	988526	216	113 - 724	2391	Tyr-18 to Lys-23,	H0428: 8, L0603: 2			

HOGDR72	988536	217	2 - 415	2392	Pro-32 to Arg-44, Pro-51 to Gly-56. Lys-56 to Leu-70, Gln-85 to Ala-91, Met-123 to Asn-133.	and S0114: 1. H0617: 10, S0410: 8, L0769: 7, H0038: 6, L0439: 6, L0750: 6, L0752: 6, L0758: 6, S0360: 5, L0775: 5, S0406: 5, H0150: 4, L0157: 4, H0620: 4, H0087: 4, S0440: 4, S0344: 4, L0763: 4, S0328: 4, L0747: 4, H0224: 3, H0484: 3, H0402: 3, S0049: 3, H0708: 3, L0773: 3, L0805: 3, L0809: 3, L0519: 3, H0670: 3, L0748: 3, L0731: 3, L0757: 3, L0581: 3, H0295: 2, H0341: 2, S0444: 2, S0222: 2, L0622: 2, H0253: 2, H0309: 2, T0115: 2, H0544: 2, H0545: 2, H0081: 2, H0012: 2, H0673: 2, S0036: 2, H0616: 2, L0770: 2, L0518: 2, H0725: 2, S0374: 2, H0696: 2, ... L0588: 2, H0543: 2,	13	
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HOCMF20	988556	218	1 - 366	2393	Gly-1 to Ser-20, Phe-29 to Asn-37, Asn-55 to Tyr-64, Ala-69 to Asp-78, Tyr-82 to Ala-91, Lys-100 to Glu-122.	S0142: 1, L0598: 1, L3904: 1, L0761: 1, L0772: 1, L0764: 1, L0767: 1, L0768: 1, L0766: 1, L0649: 1, L0803: 1, L0774: 1, L0375: 1, L0806: 1, L0776: 1, L0517: 1, L0526: 1, L0783: 1, L0789: 1, H0144: 1, L0438: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0435: 1, H0659: 1, H0648: 1, H0521: 1, H0522: 1, S3014: 1, S0027: 1, L0755: 1, L0759: 1, H0445: 1, H0343: 1, H0595: 1, L0608: 1, H0136: 1, S0276: 1, H0542: 1, L0600: 1 and H0352: 1.		
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							L0471: 1, S0362: 1, H0030: 1, H0031: 1, H0068: 1, H0038: 1, H0412: 1, H0413: 1, H0538: 1, L0637: 1, L0768: 1, L0766: 1, L0658: 1, L0659: 1, H0144: 1, H0547: 1, S0126: 1, H0659: 1, H0660: 1, S0027: 1, L0754: 1, L0786: 1, L0779: 1, L0755: 1 and L0757: 1.			
HAMHH26	988737	219	309 - 773	2394	Ala-12 to Asn-18.	H0618: 1, H0081: 1, T0010: 1, H0560: 1, L0763: 1, L0803: 1 and L0790: 1.				
HHFOX44	988904	220	3 - 659	2395		S0212: 20, L0751: 14, L0663: 11, L0731: 11, H0083: 10, L0657: 10, L0666: 10, H0547: 10, H0550: 7, H0620: 6, L0769: 6, H0689: 6, H0123: 5, H0428: 5, L0662: 5, S0356: 4, H0059: 4, L0664: 4, H0520: 4, H0670: 4, L0581: 4, S0418: 3, L0717: 3, H0618: 3, H0494: 3, S0438: 3,	2q33-q34	100730, 118800, 123660, 135600, 157655, 186860, 201460, 205100, 213700, 262000, 600258, 601277, 601318		

L0770: 3, L0659: 3, H0683: 3, H0660: 3, L0747: 3, L0758: 3, S0434: 3, H0543: 3, H0624: 2, H0295: 2, H0341: 2, H0662: 2, S0358: 2, S0360: 2, H0675: 2, S0408: 2, H0251: 2, H0051: 2, H0594: 2, H0687: 2, H0615: 2, H0031: 2, H0413: 2, H0100: 2, L0637: 2, L0648: 2, L0803: 2, L0774: 2, L0783: 2, L0665: 2, S0374: 2, S0126: 2, H0658: 2, H0672: 2, S0378: 2, S0406: 2, L0439: 2, L0605: 2, H0352: 2, H0170: 1, H0686: 1, H0685: 1, H0294: 1, S0180: 1, S0298: 1, H0661: 1, H0664: 1, S0420: 1, S0442: 1, S0354: 1, S0376: 1, H0637: 1, H0329: 1, S0007: 1, H0208: 1, H0645: 1, H0549: 1, H0391: 1, H0392: 1, H0331: 1,						
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HPWDE54	989029	221	1 - 2127	2396	Met-1 to Ile-6, Cys-13 to Ser-20, Asp-40 to Ser-46, Asp-48 to Ser-62, Ser-70 to Tyr-80, Glu-83 to Ser-89, Leu-108 to Ser-119,	H0632: 1, T0109: 1, H0575: 1, H0545: 1, H0009: 1, H0024: 1, H0057: 1, H0373: 1, H0188: 1, H0288: 1, H0286: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0564: 1, S0440: 1, L0772: 1, L0374: 1, L0794: 1, L0652: 1, L0653: 1, L0809: 1, L0543: 1, H0693: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0666: 1, S0330: 1, S0380: 1, H0696: 1, H0555: 1, S0027: 1, L0748: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, S0436: 1, L0597: 1, L0599: 1, H0542: 1 and S0384: 1.	AR055: 8, AR096: 4, AR053: 4, AR104: 3, AR089: 3, AR061: 3, AR039: 3, AR060: 3, AR033: 3, AR052: 1 L0777: 4, H0052: 3, L0438: 2, L0748: 2,	
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HNOAX46	989183	222	1 - 789	2397	Cys-138 to Trp-154, S0212: 1, S0376: 1, Glu-198 to Val-227, H0438: 1, H0318: 1, Lys-251 to Asp-264, L0471: 1, H0375: 1, Asp-407 to Glu-415, H0038: 1, H0551: 1, Ile-456 to Val-462, L0763: 1, L0764: 1, Ser-470 to His-476, L0767: 1, L0794: 1, Phe-478 to Ser-492, L0775: 1, L0805: 1, Arg-500 to Asp-507, L0653: 1, H0648: 1, Asn-595 to Ala-603, S0044: 1, L0742: 1, Leu-638 to Leu-648, L0439: 1, L0747: 1, Lys-667 to Asn-673, L0750: 1, S0031: 1, Trp-684 to Ile-691, H0445: 1, L0590: 1 and Ser-698 to Glu-709, H0543: 1.		
					H0556: 17, H0305: 15, S0414: 14, L0665: 14, H0402: 12, S0360: 11, L0663: 11, L0777: 11, L0766: 9, L0664: 9, L0752: 9, L0362: 9, L0662: 8, L0754: 8, S0408: 7, L0776: 7, L0666: 7, H0648: 7, S0406: 7, L0758: 7, H0422: 7, L0803: 6, L0655: 6, H0696: 6, H0657: 5, H0486: 5, L0770: 5, L0659: 5, H0144: 5, S0328: 5, L0742: 5, L0731: 5, H0423: 5, H0265: 4,		

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HCQCB28	989280	223	408 - 289	2398	His-7 to Lys-14.	L0657: 1, L0656: 1, L0782: 1, L0647: 1, L0788: 1, L2269: 1, H0697: 1, H0691: 1, H0693: 1, L0352: 1, H0547: 1, H0689: 1, H0659: 1, H0658: 1, S0152: 1, H0525: 1, H0521: 1, S0013: 1, H0704: 1, H0694: 1, H0555: 1, S0206: 1, L0740: 1, L0749: 1, L0755: 1, L0759: 1, S0031: 1, H0445: 1, H0343: 1, H0595: 1, S0436: 1, L0599: 1, L0603: 1, S0192: 1, S0276: 1, S0196: 1, H0677: 1 and H0008: 1.		
						L0768: 5, L0766: 3, L0769: 2, L0748: 2, L0750: 2, L0758: 2, H0663: 1, S0420: 1, S0360: 1, H0675: 1, H0486: 1, H0596: 1, H0179: 1, H0328: 1, L0363: 1, L0806: 1, L0809: 1, H0658: 1, L0747: 1, L0777: 1, L0731: 1 and H0352: 1.		

HOOJB32	989321	224	460 - 1173	2399	Ser-75 to Ala-92, Ala-106 to Met-123, Pro-125 to Gln-131, Asp-175 to Asn- 182, Val-197 to Arg-224.	L0777: 7, L0766: 5, L0663: 3, H0660: 3, L0752: 3, L0758: 3, H0650: 2, H0124: 2, L0646: 2, L0740: 2, H0445: 2, L0588: 2, L0485: 2, S0424: 2, H0657: 1, H0341: 1, S0358: 1, S0360: 1, S0046: 1, H0385: 1, H0586: 1, L0477: 1, H0004: 1, H0052: 1, H0596: 1, H0373: 1, H0083: 1, H0375: 1, H0376: 1, H0059: 1, H0494: 1, S0150: 1, L0369: 1, L0763: 1, L0764: 1, L0662: 1, L0768: 1, L0803: 1, L0775: 1, L0776: 1, L0659: 1, L0666: 1, L0665: 1, H0144: 1, S0126: 1, H0659: 1, H0648: 1, S0330: 1, S0378: 1, S0152: 1, H0436: 1, S0390: 1, L0581: 1 and H0668: 1.		
HMWJJ35	989323	225	303 - 452	2400		H0171: 1, H0341: 1, L0157: 1, H0083: 1, H0068: 1, H0038: 1,	13q14.3	277900, 600631

HHFIA95	989396	226	105 - 188	2401	Phe-2 to Cys-10.	H0616: 1 and L0519: 1. L0438: 4, L0754: 4, H0521: 3, H0624: 2, S0356: 2, S0132: 2, L0803: 2, L0806: 2, L0439: 2, L0749: 2, L0779: 2, L0759: 2, H0556: 1, H0686: 1, L0002: 1, H0661: 1, S0376: 1, H0580: 1, H0586: 1, H0544: 1, H0050: 1, L0471: 1, H0620: 1, H0373: 1, H0051: 1, H0083: 1, H0594: 1, S6028: 1, S0003: 1, H0622: 1, H0032: 1, H0169: 1, H0040: 1, H0264: 1, H0560: 1, S0422: 1, L0369: 1, L0373: 1, L0646: 1, L0774: 1, L0784: 1, L0653: 1, L0776: 1, L0663: 1, H0593: 1, S0328: 1, H0539: 1, S0027: 1, L0752: 1, L0731: 1, L0605: 1, L0591: 1, L0604: 1 and H0542: 1.		
HSPSH36	989607	227	71 - 259	2402	Pro-26 to Glu-49, Asp-58 to Pro-63.			

HAAA25	989952	228	1136 - 534	2403	Lys-14 to Glu-23, Glu-30 to Ser-43, Ser-45 to His-54, Thr-66 to Tyr-71, Pro-75 to Asp-80, Ile-98 to Thr-120, Glu-125 to Lys-133, Leu-146 to Ala-152, Ala-170 to Ile-176, Asp-180 to Cys-200.	H0318: 1, H0646: 1 and L0366: 1.	8q24.12- q24.13	133700, 133700, 150230, 190080, 190350
HTEMJ16	990060	229	268 - 645	2404	His-8 to Ser-15, Ser-21 to Gly-32, Arg-51 to Ala-57, Phe-71 to Leu-78, Gly-87 to Glu-92.	L0777: 10, H0616: 4, L0758: 4, L0761: 3, L0766: 3, H0648: 3, L0749: 3, L0750: 3, L0755: 3, H0318: 2, H0545: 2, H0373: 2, H0038: 2, S0438: 2, S0422: 2, L0774: 2, L0375: 2, L0657: 2, L0518: 2, H0659: 2, L0731: 2, L0759: 2, H0685: 1, H0294: 1, H0656: 1, L0808: 1, S0420: 1, H0586: 1, L0622: 1, H0486: 1, T0082: 1, S0010: 1, S0049: 1, L0471: 1, H0615: 1, L0520: 1, L0762: 1, L0763: 1, L0770: 1, L0769: 1,		

HWLAB90	990146	230	2 - 682	2405	Glu-1 to Val-14, Arg-123 to Gly-128.	L0372: 1, L0646: 1, L0767: 1, L0768: 1, L0803: 1, L0776: 1, L0658: 1, L0636: 1, L0368: 1, L0666: 1, L0664: 1, L0665: 1, H0682: 1, H0658: 1, H0666: 1, S0330: 1, S0406: 1, S0027: 1, L0747: 1, L0779: 1, L0780: 1, L0753: 1 and L0757: 1.		
						L0748: 6, L0774: 4, L0439: 4, L0749: 4, L0764: 3, L0771: 3, L0775: 3, L0665: 3, S0408: 2, H0644: 2, L0766: 2, L0649: 2, S0374: 2, L0747: 2, S0282: 1, H0662: 1, S0442: 1, S0354: 1, H0586: 1, H0156: 1, L0021: 1, H0239: 1, H0494: 1, S0440: 1, H0695: 1, L0762: 1, L0761: 1, L0648: 1, L0803: 1, L0804: 1, L0666: 1, L0663: 1, H0689: 1, H0658: 1, H0648: 1, S0380: 1,		

HOSED43	990184	231	2 - 790	2406	Gln-81 to Cys-86, Lys-170 to Asp-181.	S0044: 1, L0755: 1, L0758: 1 and H0423: 1. AR089: 23, AR096: 19, AR039: 16, AR052: 16, AR060: 13, AR033: 11, AR055: 10, AR104: 9, AR053: 4, AR061: 3 H0024: 2, L0594: 2, H0542: 2, H0657: 1, S0214: 1, L0761: 1, L0766: 1, H0435: 1, H0658: 1, S0380: 1, L0753: 1 and L0759: 1.			
HNODF50	990254	232	761 - 165	2407	Gly-1 to Gln-11, Pro-111 to Pro-126, Lys-174 to Ser-179, Leu-181 to Leu-190.	H0617: 10, S0126: 7, S0404: 5, L0747: 5, L0779: 5, H0253: 4, H0545: 4, L0766: 4, S0328: 4, L0742: 4, L0752: 4, H0686: 3, S0420: 3, S0358: 3, S0046: 3, S0278: 3, H0592: 3, H0618: 3, H0100: 3, L0769: 3, H0519: 3, L0743: 3, L0758: 3, H0341: 2, H0484: 2, H0333: 2, H0327: 2, H0544: 2, H0046: 2, H0594: 2, T0042: 2, H0494: 2,			

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HLWBV17	990255	233	144 - 542	2408	Pro-46 to Pro-60, Lys-108 to Ser-113, Leu-115 to Leu-124.	S0196: 1, H0423: 1 and H0008: 1. H0617: 10, S0126: 7, S0404: 5, L0747: 5, L0779: 5, H0253: 4, H0545: 4, L0766: 4, S0328: 4, L0742: 4, L0752: 4, H0686: 3, S0420: 3, S0358: 3, S0046: 3, S0278: 3, H0592: 3, H0618: 3, H0100: 3, L0769: 3, L0665: 3, H0519: 3, L0743: 3, L0758: 3, H0341: 2, H0484: 2, H0333: 2, H0327: 2, H0544: 2, H0046: 2, H0594: 2, T0042: 2, H0494: 2, S0426: 2, L0763: 2, L0761: 2, L0764: 2, L0519: 2, L0532: 2, H0435: 2, H0651: 2, S0330: 2, H0539: 2, S0206: 2, L0751: 2, L0755: 2, S0106: 2, H0543: 2, H0422: 2, H0624: 1, H0171: 1, H0657: 1, H0656: 1, S0282: 1, S0029: 1, H0663: 1,		
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HOCQH66	990435	234	37 - 2745	2409	Leu-1 to Gly-8.	L0386: 1, L0774: 1, L0776: 1, L0527: 1, L0657: 1, L0515: 1, L0659: 1, L0517: 1, L0542: 1, L0545: 1, L0666: 1, L0664: 1, H0593: 1, H0689: 1, H0690: 1, H0682: 1, H0659: 1, H0670: 1, H0518: 1, S0146: 1, H0436: 1, H0576: 1, S0390: 1, S0037: 1, S3014: 1, L0748: 1, L0754: 1, L0749: 1, L0753: 1, S0031: 1, H0445: 1, L0596: 1, H0668: 1, H0667: 1, S0242: 1, S0194: 1, S0196: 1, H0423: 1 and H0008: 1.	2q37	113300, 120070, 120131, 120131, 120250, 138030, 259900, 600430
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HOGDC67	990546	235	1887 - 859	2410	Thr-77 to Val-84, Ser-244 to Val-255, Ala-296 to Val-301.	H0063: 1, H0647: 1, L0763: 1, L0545: 1, L0789: 1, L0438: 1, H0519: 1, H0682: 1, H0658: 1, H0660: 1, S0332: 1, S0146: 1, S0032: 1, L0439: 1, L0751: 1, L0754: 1, L0750: 1, L0731: 1, S0242: 1, H0008: 1 and H0293: 1.	S0126: 8, S0418: 5, L0439: 5, H0551: 4, L0438: 4, L0747: 4, S0192: 4, H0556: 3, H0046: 3, L0769: 3, L0771: 3, L0662: 3, L0665: 3, L0731: 3, H0265: 2, S0360: 2, S0410: 2, S0046: 2, H0370: 2, H0618: 2, H0284: 2, H0181: 2, H0494: 2, H0560: 2, L0763: 2, L0764: 2, L0649: 2, L0378: 2, L0806: 2, L0547: 2, L0789: 2, L0666: 2, L0663: 2, H0520: 2, H0435: 2, S0152: 2, L0759: 2, L0596: 2,	17	
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L0595: 2, H0624: 1, S0040: 1, S0342: 1, H0657: 1, S0212: 1, S0420: 1, S0045: 1, H0441: 1, H0497: 1, H0333: 1, H0559: 1, H0486: 1, T0109: 1, H0253: 1, H0309: 1, H0545: 1, H0123: 1, H0081: 1, H0024: 1, S0388: 1, T0010: 1, H0594: 1, H0266: 1, H0292: 1, H0286: 1, H0252: 1, H0615: 1, H0039: 1, H0048: 1, H0644: 1, H0617: 1, H0598: 1, H0135: 1, H0063: 1, H0164: 1, H0433: 1, H0625: 1, H0561: 1, L0065: 1, H0131: 1, S0150: 1, H0633: 1, H0538: 1, S0208: 1, H0529: 1, L0770: 1, L0637: 1, L0800: 1, L0374: 1, L0644: 1, L0363: 1, L0794: 1, L0766: 1, L0388: 1, L0533: 1, L0804: 1, L0650: 1, L0540: 1, L0809: 1,
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HODGN92	990611	237	101 - 505	2412.				H0229: 1, L0717: 1, H0497: 1, H0486: 1, H0244: 1, H0318: 1, H0581: 1, H0596: 1, L0041: 1, H0009: 1, H0563: 1, H0572: 1, L0471: 1, H0266: 1, S0214: 1, H0252: 1, H0039: 1, L0055: 1, S0036: 1, H0090: 1, H0412: 1, H0623: 1, H0059: 1, S0038: 1, H0494: 1, S0150: 1, L0637: 1, L0641: 1, L0764: 1, L0771: 1, L0803: 1, L0804: 1, L0775: 1, L0375: 1, L0657: 1, L0518: 1, L0809: 1, L5623: 1, L0666: 1, H0144: 1, H0701: 1, H0711: 1, H0659: 1, H0670: 1, H0660: 1, H0648: 1, L0602: 1, S0028: 1, L0744: 1, L0748: 1, L0780: 1, S0436: 1, L0591: 1, L0594: 1, L0366: 1 and H0665: 1. H0615: 1 and H0660: 1.		
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HPDRP30	990751	238	1166 - 2098	2413	Gln-1 to Pro-11, Val-15 to Arg-23, Arg-44 to Arg-59, Thr-70 to Gln-75, Ala-153 to Gln-168, Pro-187 to Pro-194, Pro-204 to Asp-214.	H0618: 12, H0253: 4, L0771: 4, S0358: 2, H0688: 2, H0658: 2, H0651: 2, L0439: 2, L0777: 2, H0445: 2, S6024: 1, H0484: 1, S0420: 1, S0376: 1, H0619: 1, H0609: 1, H0586: 1, H0642: 1, H0427: 1, H0196: 1, H0309: 1, H0546: 1, H0009: 1, H0123: 1, H0292: 1, H0553: 1, H0617: 1, H0551: 1, H0264: 1, S0440: 1, H0646: 1, L0372: 1, L0646: 1, L0803: 1, L0658: 1, L0659: 1, L0783: 1, L0788: 1, L0438: 1, H0690: 1, H0660: 1, H0648: 1, H0479: 1, L0744: 1, L0779: 1, L0758: 1, S0436: 1, H0542: 1 and H0423: 1.		
HBXFN09	990769	239	95 - 145	2414		H0438: 1 and L0749: 1.		
HDTBO75	990913	240	184 - 324	2415			1p22.1-p21.3	170995, 600309, 601414,

HELGN26	991014	241	3 - 902	2416	Arg-1 to Asn-18.	S0045: 1		602094
HODCU15	991048	242	828 - 1592	2417	Thr-57 to Glu-63, Ala-66 to Val-75, Glu-77 to Phe-86, Asp-199 to Gly-211.	AR055: 1, AR096: 1, AR089: 1, AR060: 1, AR104: 1, AR039: 1, AR061: 1, AR053: 1, AR033: 0, AR052: 0 S0418: 1, H0328: 1 and L0758: 1.		
HOGDI51	991268	243	1 - 543	2418	Phe-102 to Pro-111, His-136 to Lys-141.	H0038: 1, H0435: 1 and L0592: 1.	9q34	125270, 125270, 128100, 137350, 191100, 215700, 223360, 268900, 601850
HLWAF02	991516	244	156 - 449	2419	Arg-1 to Ser-6, Phe-13 to Gln-24, Glu-31 to Arg-40, Ser-48 to Asn-56, Asp-69 to Val-75.	H0553: 1 and L0758: 1.	2q	
HRKPA16	991654	245	296 - 502	2420	Asn-47 to Phe-58.	L0748: 3, L0759: 3, H0366: 2, L0666: 2, L0665: 2, L0602: 2, S0136: 2, L0751: 2, L0779: 2, S0442: 1, L0717: 1, L0738: 1, T0010: 1, S0003: 1.		

HPDQX94	991761	246	90 - 650	2421	Asp-15 to Ser-25, Ser-33 to Val-38, Lys-181 to Phe-187.	H0622: 1, H0673: 1, H0674: 1, H0388: 1, H0412: 1, T0041: 1, S0422: 1, S0426: 1, L0638: 1, L0662: 1, L0768: 1, L0766: 1, L0775: 1, L0805: 1, L0655: 1, L0657: 1, L0512: 1, L0659: 1, L0663: 1, L0664: 1, H0670: 1, S0406: 1, H0678: 1, L0745: 1, L0756: 1, L0752: 1, S0436: 1, L0581: 1 and L0601: 1.	4q28-q31	107250, 134820, 134820, 134820, 134820, 134830, 134850, 134850, 181600, 189800, 266300
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HEAAY09	992678	247	40 - 390	2422			S0410: 1, H0741: 1, H0645: 1, H0438: 1, H0497: 1, H0643: 1, H0632: 1, L0622: 1, H0575: 1, H0231: 1, H0009: 1, H0081: 1, H0014: 1, H0373: 1, S0366: 1, H0063: 1, S0440: 1, L0772: 1, L0764: 1, L0526: 1, L0541: 1, S0374: 1, S0148: 1, H0593: 1, S0126: 1, H0666: 1, S0328: 1, H0710: 1, H0522: 1, H0696: 1, S0206: 1, L0740: 1, L0749: 1, L0753: 1, L0758: 1, H0445: 1, S0434: 1, S0436: 1, S0026: 1 and H0721: 1.	13q14	109543, 600631, 601499
HPDRH78	992780	248	115 - 1371	2423			H0038: 6, L0663: 4, L0601: 4, S0442: 3, L0157: 3, L0770: 3, L0665: 3, S0436: 3, H0341: 2, H0125: 2, H0360: 2, H0318: 2, H0328: 2, H0615: 2.		

					T0023: 2, H0561: 2, S0440: 2, L0766: 2, L0809: 2, H0547: 2, H0519: 2, S0126: 2, H0659: 2, H0672: 2, S0330: 2, L0754: 2, L0745: 2, L0750: 2, H0506: 2, H0265: 1, H0556: 1, S0040: 1, H0717: 1, H0294: 1, H0583: 1, H0657: 1, L0785: 1, H0669: 1, S0420: 1, L0005: 1, S0376: 1, H0619: 1, H0351: 1, S0222: 1, S0220: 1, H0431: 1, T0039: 1, H0618: 1, T0110: 1, H0570: 1, H0569: 1, L0471: 1, H0292: 1, H0031: 1, L0055: 1, H0166: 1, H0169: 1, H0068: 1, S0036: 1, H0163: 1, H0359: 1, S0450: 1, H0647: 1, H0646: 1, S0344: 1, L0638: 1, L0372: 1, L0641: 1, L0643: 1, L0662: 1, L0768: 1, L0775: 1, L0653: 1, L0776: 1,	
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HLMHG68	992900	249	19 - 774	2424	Gln-2 to Ala-8, Asn-18 to Pro-28, Ala-129 to Asp-135, Ser-161 to Ser-171, Val-242 to Arg-250.	L0512: 1, L0783: 1, L0382: 1, L0532: 1, L0666: 1, S0374: 1, L0438: 1, H0520: 1, H0593: 1, H0690: 1, H0682: 1, H0658: 1, S0380: 1, S0044: 1, S0146: 1, S0406: 1, S3012: 1, S0027: 1, S0028: 1, L0746: 1, L0777: 1, L0731: 1, S0031: 1, S0434: 1, L0599: 1, H0668: 1, H0665: 1, S0276: 1, H0423: 1, S0424: 1, UNKWN: 1 and L0600: 1.		
						AR055: 28, AR039: 26, AR060: 21, AR033: 20, AR052: 17, AR089: 16, AR096: 16, AR104: 15, AR053: 15, AR061: 11 L0751: 6, L0783: 4, H0672: 4, L0805: 2, L0752: 2, L0758: 2, H0657: 1, H0255: 1, H0638: 1, S0418: 1, S0442: 1, H0351: 1, H0587: 1, H0256: 1,		

								L0623: 1, H0014: 1, H0051: 1, S0388: 1, H0688: 1, H0428: 1, H0424: 1, H0213: 1, H0401: 1, H0111: 1, H0617: 1, H0163: 1, H0063: 1, H0551: 1, T0041: 1, S0002: 1, L0764: 1, L0648: 1, L0662: 1, L0650: 1, L0774: 1, L0523: 1, L0378: 1, L0655: 1, L4501: 1, H0690: 1, H0659: 1, H0658: 1, H0521: 1, H0436: 1, L0777: 1 and L0601: 1.		
HODFO57	992973	250	2 - 811	2425	Trp-31 to Thr-39, Asn-71 to Gln-76, Pro-134 to Thr-150, Lys-238 to Lys-243.					
HOCpz44	993380	251	139 - 540	2426	Arg-1 to Glu-6, Arg-52 to Ala-58, Phe-72 to Leu-79, Gly-88 to Glu-93, Tyr-124 to Arg-134.			L0518: 4, S0356: 3, H0617: 3, L0777: 3, H0486: 2, H0544: 2, H0545: 2, H0373: 2, H0547: 2, H0660: 2, L0757: 2, L0604: 2, H0423: 2, H0656: 1, H0341: 1, H0484: 1, H0483: 1, H0661: 1, S0360: 1, S0045: 1,		

HPAMU38	993403	252	69 - 821	2427	Gly-23 to Lys-28, Ser-37 to Gly-42, Lys-90 to Asp-101, Glu-175 to Phe-182, Glu-245 to Thr-251.	S0132: 1, S0300: 1, H0411: 1, H0438: 1, H0586: 1, H0574: 1, T0109: 1, H0156: 1, H0318: 1, H0251: 1, H0014: 1, T0079: 1, H0615: 1, T0023: 1, H0674: 1, S0036: 1, H0038: 1, H0040: 1, H0616: 1, T0067: 1, T0042: 1, L0475: 1, S0422: 1, H0529: 1, H0520: 1, H0682: 1, L0740: 1, L0749: 1, L0758: 1, L0759: 1, L0588: 1, L0362: 1, S0276: 1, S0196: 1, H0543: 1 and H0506: 1.		
						L0439: 8, L0774: 4, L0731: 4, H0622: 3, H0617: 3, S0002: 3, L0662: 3, L0438: 3, L0777: 3, S0134: 2, L0717: 2, H0370: 2, H0052: 2, H0596: 2, L0163: 2, H0163: 2, L0769: 2, L0768: 2, L0766: 2, L0666: 2, H0682: 2, L0740: 2, L0752: 2, L0757: 2,		

						<p>L0759: 2, L0605: 2, S0040: 1, H0583: 1, S0001: 1, S0282: 1, H0255: 1, H0669: 1, H0662: 1, S0354: 1, S0278: 1, S6022: 1, H0549: 1, S6014: 1, H0438: 1, H0427: 1, H0618: 1, S0010: 1, S0049: 1, H0150: 1, H0009: 1, H0050: 1, H0012: 1, H0620: 1, H0057: 1, S0388: 1, H0252: 1, T0067: 1, H0488: 1, H0646: 1, S0142: 1, L0770: 1, L0761: 1, L0648: 1, L0649: 1, L0803: 1, L0375: 1, L0776: 1, L0659: 1, L0783: 1, L0665: 1, H0144: 1, H0519: 1, H0593: 1, H0690: 1, H0518: 1, L0611: 1, S3012: 1, L0754: 1, L0747: 1, L0755: 1, L0758: 1, H0653: 1, H0665: 1, S0276: 1 and H0422: 1.</p>	
HNGGK47	993602	253	265 - 372	2428	Ttp-26 to Lys-36.	<p>AR055: 8, AR033: 6, AR089: 6, AR060: 6,</p>	

							AR104: 5, AR039: 5, AR096: 4, AR061: 4, AR053: 4, AR052: 4 L0522: 3, L0748: 2, H0171: 1, H0686: 1, L0034: 1, H0615: 1, L0764: 1, L0794: 1, S0052: 1, S0374: 1 and L0601: 1.			
HODGN51	993754	254	94 - 342	2429	Lys-12 to Ser-18, Lys-20 to Lys-25, Thr-38 to His-43, Lys-53 to Cys-64.		H0615: 3			
HODCT60	993806	255	212 - 559	2430	Ile-7 to Trp-17, Asn-54 to Lys-64, Thr-85 to Met-91.		S0001: 1, H0328: 1 and H0615: 1.			
HAQBV81	993918	256	3 - 623	2431	Gln-1 to Arg-7, Gly-18 to Thr-24, Glu-26 to Glu-32, His-76 to Thr-88, Gln-122 to His-129, Pro-184 to Glu-190.		L0809: 7, L0758: 7, L0754: 5, S0007: 4, L0662: 4, L0794: 4, L0665: 4, H0333: 3, L0769: 3, L0761: 3, L0768: 3, L0803: 3, L0439: 3, H0395: 2, S0222: 2, H0039: 2, H0124: 2, S0036: 2, L0535: 2, L0666: 2, H0658: 2, L0751: 2, L0747: 2, L0759: 2, L0591: 2, L0485: 2, H0624: 1, H0716: 1,			

HDTGF49	993931	257	1040 - 1174	2432			H0295: 1, H0402: 1, S0418: 1, S0442: 1, S0132: 1, H0619: 1, H0415: 1, H0586: 1, L0623: 1, H0486: 1, H0013: 1, S0280: 1, L0021: 1, H0618: 1, H0318: 1, H0052: 1, H0251: 1, H0123: 1, H0050: 1, H0012: 1, S0051: 1, H0179: 1, H0615: 1, T0006: 1, H0673: 1, H0135: 1, H0040: 1, H0087: 1, H0264: 1, H0100: 1, L0763: 1, L5565: 1, L0667: 1, L0772: 1, L0644: 1, L0775: 1, L0375: 1, L0805: 1, L0655: 1, L0659: 1, L0526: 1, L0663: 1, S0052: 1, H0682: 1, H0660: 1, S0028: 1, L0743: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, L0755: 1, L0592: 1, H0136: 1 and S0424: 1.		
							H0486: 2, H0171: 1, H0657: 1, S0360: 1,		

							H0587: 1, H0013: 1, H0318: 1, H0688: 1, L0793: 1 and L0748: 1.			
H0GBN62	994134	258	152 - 448	2433			Phe-12 to Tyr-22, Lys-34 to Ile-44.			L0794: 6, L0438: 4, L0758: 4, H0656: 3, L0766: 3, L0748: 3, L0747: 3, L0753: 3, L0731: 3, H0662: 2, H0013: 2, H0529: 2, L0655: 2, H0659: 2, L0439: 2, L0751: 2, L0779: 2, L0588: 2, H0422: 2, L0785: 1, S0420: 1, H0599: 1, S0010: 1, H0327: 1, H0024: 1, H0051: 1, H0083: 1, L0194: 1, L0055: 1, H0673: 1, H0038: 1, H0551: 1, H0561: 1, S0002: 1, L0770: 1, L0761: 1, L0764: 1, L0768: 1, L0774: 1, L0775: 1, L0806: 1, L0659: 1, L0519: 1, L0666: 1, S0126: 1, H0435: 1, S0330: 1, S0380: 1, S3014: 1, S0260: 1, L0592: 1, L0485: 1 and L0362: 1

HSKGR42	994234	259	126 - 410	2434	Asp-8 to Glu-16, Thr-24 to Lys-35, Asn-37 to Glu-44, Leu-65 to Asp-95.	H0519: 1 and S3014: 1.		
HOEBQ85	994356	260	1065 - 706	2435		L0747: 4, L0758: 3, L0794: 2, L0649: 2, L0749: 2, L0759: 2, H0624: 1, H0333: 1, L0598: 1, L0773: 1, L0661: 1, L4501: 1, S0126: 1, H0682: 1, S0328: 1, H0521: 1, L0748: 1, L0750: 1, L0780: 1, L0755: 1 and S0436: 1.		
HOPJG01	994536	261	1390 - 257	2436	Ala-41 to Ser-46, Gly-57 to Gly-62, Glu-91 to Asn-111, Gln-113 to Pro-120, Val-128 to Ser-133, His-142 to Arg-149, Thr-177 to Leu-184, Arg-206 to Ile-214, Phe-261 to Trp-270, Asn-298 to Phe-305, Gln-315 to Gly-320.	H0052: 25, T0006: 15, L0596: 12, S0222: 11, H0009: 10, L0753: 10, H0441: 9, L0439: 9, L0752: 9, S0358: 8, H0253: 8, H0618: 7, H0231: 7, L0769: 7, H0144: 7, S0374: 7, H0550: 6, L0775: 6, L0745: 6, L0747: 6, S6024: 5, H0597: 5, H0178: 5, S0388: 5, S0051: 5, H0399: 5, L0750: 5, L0731: 5, S0007: 4, H0351: 4,	14q32	123270, 245200, 251600, 270100, 276900

					S0049: 4, H0204: 4, H0100: 4, L0509: 4, L0542: 4, L0783: 4, L0742: 4, L0746: 4, L0777: 4, L0366: 4, S0300: 3, H0261: 3, H0549: 3, H0497: 3, H0156: 3, S0010: 3, H0085: 3, N0006: 3, S0003: 3, S0036: 3, H0641: 3, L0770: 3, L0499: 3, L0776: 3, L0659: 3, L0665: 3, H0519: 3, H0684: 3, L0756: 3, L0758: 3, L0608: 3, S0424: 3, H0506: 3, H0624: 2, H0170: 2, S6026: 2, H0592: 2, S0346: 2, H0196: 2, H0235: 2, H0596: 2, H0150: 2, H0103: 2, S0050: 2, H0201: 2, T0010: 2, H0213: 2, H0674: 2, L0455: 2, H0038: 2, L0764: 2, L0766: 2, L0375: 2, L0782: 2, L0528: 2, L0666: 2, L0438: 2, H0520: 2, H0672: 2, S0044: 2,
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S0028: 2, L0744: 2, S0260: 2, H0685: 1, S0110: 1, H0176: 1, S0442: 1, S0354: 1, S0360: 1, S0410: 1, H0411: 1, H0369: 1, H0431: 1, H0438: 1, H0333: 1, L0623: 1, H0013: 1, H0069: 1, H0427: 1, H0599: 1, H0434: 1, H0251: 1, H0183: 1, H0263: 1, H0205: 1, H0232: 1, H0545: 1, H0065: 1, H0569: 1, H0172: 1, H0081: 1, H0012: 1, H0620: 1, H0014: 1, S0362: 1, L0163: 1, H0051: 1, H0408: 1, S6028: 1, H0266: 1, H0688: 1, H0428: 1, H0424: 1, H0617: 1, H0673: 1, H0169: 1, L0456: 1, H0135: 1, H0059: 1, H0102: 1, S0038: 1, S0112: 1, H0494: 1, H0130: 1, H0529: 1, L0369: 1, L0520: 1, L0762: 1, L0500: 1, L0638: 1,						
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HKBAK06	994596	262	213 - 410	2437	Asn-1 to Arg-7, Ser-26 to Arg-31, Gln-36 to Trp-41, Pro-59 to Lys-66.	L0627: 1, L0372: 1, L0646: 1, L0363: 1, L0768: 1, L0364: 1, L0803: 1, L0774: 1, L0784: 1, L0805: 1, L0653: 1, L0657: 1, L0526: 1, L0384: 1, L0809: 1, L0530: 1, L0368: 1, L0664: 1, H0547: 1, H0689: 1, H0682: 1, H0659: 1, H0660: 1, L0355: 1, S0378: 1, S3012: 1, S3014: 1, L0741: 1, L0748: 1, L0751: 1, L0786: 1, L0757: 1, S0031: 1, H0445: 1, L0593: 1, L0595: 1, S0106: 1, S0011: 1; S0460: 1 and H0008: 1.	8q21	124080, 202010, 202010, 214400, 602476, 602667
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[illegible]

HKGCN61	994664	263	1016 - 486	2438	Pro-1 to Ser-8.	L0767: 1, L0364: 1, L0766: 1, L0775: 1, L0805: 1, L0776: 1, L0655: 1, L0518: 1, L0382: 1, L0666: 1, L0663: 1, H0711: 1, H0690: 1, H0682: 1, H0670: 1, S0380: 1, S0013: 1, H0696: 1, H0704: 1, H0631: 1, H0595: 1, L0592: 1, L0581: 1, L0594: 1, L0601: 1, H0668: 1, S0194: 1, H0543: 1 and H0422: 1. L0748: 9, L0758: 6, L0775: 5, L0659: 4, L0779: 4, L0752: 4, S0360: 3, H0431: 3, H0014: 3, H0031: 3, H0641: 3, L0764: 3, L0776: 3, L0655: 3, L0666: 3, L0742: 3, L0757: 3, L0759: 3, H0657: 2, S0358: 2, H0581: 2, H0373: 2, H0615: 2, H0628: 2, H0616: 2, L0770: 2, L0766: 2, L0774: 2, L0375: 2, L0787: 2,	12q24.1	124200, 147440, 160781, 181405, 261600, 261600, 601406, 601620, 601621
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H0648: 2, H0521: 2, H0436: 2, S0027: 2, L0743: 2, L0740: 2, L0747: 2, L0756: 2, L0731: 2, L0596: 2, L0588: 2, H0686: 1, S6024: 1, H0583: 1, H0656: 1, H0669: 1, H0664: 1, S0222: 1, H0438: 1, H0574: 1, L0622: 1, L0586: 1, H0599: 1, H0042: 1, H0004: 1, S0010: 1, S0182: 1, S0474: 1, H0052: 1, H0309: 1, H0596: 1, H0545: 1, S0388: 1, H0687: 1, H0039: 1, H0622: 1, T0006: 1, H0644: 1, H0165: 1, H0166: 1, H0124: 1, S0036: 1, H0038: 1, H0551: 1, H0100: 1, H0560: 1, H0646: 1, H0538: 1, S0422: 1, S0426: 1, L0763: 1, L0637: 1, L0761: 1, L0372: 1, L0646: 1, L0645: 1, L0521: 1, L0662: 1, L0806: 1, L0379: 1,	
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HTXDY55	994699	264	2 - 289	2439			L0657: 1, L0656: 1, L0809: 1, L0647: 1, L0788: 1, L0790: 1, L0664: 1, L0665: 1, S0374: 1, H0519: 1, H0689: 1, H0682: 1, H0659: 1, H0672: 1, H0651: 1, S0330: 1, H0539: 1, S0380: 1, H0522: 1, H0696: 1, S0028: 1, S0206: 1, L0745: 1, L0749: 1, L0780: 1, L0755: 1, H0445: 1, L0605: 1, L0366: 1 and H0423: 1.		
							L0659: 4, L0666: 4, L0665: 4, H0486: 3, L0663: 3, L0759: 3, L0471: 2, H0288: 2, H0031: 2, L0769: 2, L0646: 2, L0794: 2, L0766: 2, L0657: 2, L0664: 2, L0601: 2, H0422: 2, H0265: 1, H0556: 1, H0224: 1, H0686: 1, H0685: 1, L0785: 1, S0356: 1, S0358: 1, S0376: 1, S0360: 1, S0007: 1, S0046: 1, S0132: 1,	5p15.2-pter	

HFOY137	994776	265	19 - 513	2440	Gly-18 to Gly-28, Arg-30 to Lys-51, Ala-81 to Ala-87, Lys-157 to Ser-165.	H0550: 1, H0586: 1, H0025: 1, H0318: 1, H0457: 1, H0266: 1, H0188: 1, H0252: 1, H0328: 1, H0428: 1, L0055: 1, H0135: 1, H0040: 1, H0551: 1, H0494: 1, H0560: 1, S0150: 1, S0344: 1, L0625: 1, L0761: 1, L0553: 1, L0662: 1, L0649: 1, L0803: 1, L0650: 1, L0805: 1, L0606: 1, H0519: 1, H0684: 1, H0435: 1, H0660: 1, H0648: 1, S0380: 1, S0152: 1, H0696: 1, L0786: 1, L0780: 1, L0755: 1, L0596: 1, H0216: 1 and H0543: 1.		
						S0212: 2, S0360: 2, S0276: 2, H0218: 1, H0125: 1, H0587: 1, H0497: 1, H0581: 1, H0251: 1, H0354: 1, H0428: 1, H0413: 1, L0526: 1, H0522: 1, H0627: 1, S0192: 1 and S0194: 1.	5q	

HOFNL18	994874	266	1 - 405	2441	Ser-26 to Pro-33.	AR039: 15, AR089: 8, AR033: 8, AR096: 8, AR053: 7, AR052: 7, AR060: 5, AR055: 5, AR104: 5, AR061: 3 H0415: 1 and H0414: 1.		
HOFNT57	994954	267	3 - 1175	2442	Asp-1 to Gly-15.			
HCBMT45	994993	268	1670 - 360	2443	Ser-157 to Asn-167, Asn-192 to Lys-198.	L0731: 8, L0757: 6, L0794: 5, L0809: 5, L0770: 3, L0803: 3, L0789: 3, L0750: 3, L0759: 3, H0038: 2, L0769: 2, L0805: 2, L0659: 2, L0665: 2, S0037: 2, L0742: 2, L0743: 2, L0748: 2, L0754: 2, L0747: 2, L0758: 2, S0436: 2, L0599: 2, L0608: 2, H0624: 1, H0661: 1, H0638: 1, S0358: 1, H0728: 1, H0733: 1, H0586: 1, H0587: 1, H0642: 1, S0010: 1, H0052: 1, H0544: 1, H0046: 1, L0471: 1, H0083: 1, H0179: 1, H0252: 1, H0688: 1, H0617: 1, H0606: 1,		

HATDZ56	995200	269	120 - 1154	2444	Thr-23 to Pro-34, Glu-39 to Asp-83, Asn-89 to Lys-99, Asp-118 to Asp-128, Asn-135 to Glu-150, Glu-153 to Gly-168, Gly-181 to Thr-187, Arg-200 to Asp-205, Arg-273 to Ile-279, Thr-295 to Asp-300, Thr-316 to Cys-321.	<p>H0673: 1, H0135: 1, H0264: 1, H0059: 1, H0560: 1, S0440: 1, S0150: 1, H0633: 1, S0344: 1, S0002: 1, L3904: 1, L0800: 1, L0773: 1, L0804: 1, L0774: 1, L0775: 1, L0806: 1, H0144: 1, L0438: 1, H0519: 1, H0684: 1, H0435: 1, H0651: 1, H0521: 1, L0740: 1, L0749: 1, L0752: 1, H0595: 1, S0434: 1 and H0542: 1. L0438: 2, H0156: 1, H0004: 1, L0748: 1 and L0749: 1.</p>		
HOCQI44	995229	270	2 - 520	2445	Ser-14 to Ala-21, Pro-80 to Tyr-85, Pro-99 to Gly-105.	<p>L0771: 6, L0794: 4, L0748: 4, H0659: 3, L0749: 3, H0624: 2.</p>	20	

HNOJG43	995562	271	1 - 1002	2446		Lys-158 to Pro-173.	H0663: 2, S0360: 2, L0769: 2, L0764: 2, H0660: 2, L0779: 2, L0608: 2, L0601: 2, S0026: 2, S0418: 1, S0410: 1, H0393: 1, L0579: 1, L0471: 1, H0266: 1, H0252: 1, H0673: 1, H0090: 1, H0038: 1, H0087: 1, H0413: 1, H0538: 1, H0695: 1, L0761: 1, L0642: 1, L0648: 1, L0768: 1, L0766: 1, L0381: 1, L0775: 1, L0376: 1, L0378: 1, L0806: 1, L0657: 1, L0658: 1, L0788: 1, L0663: 1, H0690: 1, H0682: 1, H0631: 1, L0751: 1, L0754: 1, L0747: 1, L0758: 1, L0759: 1 and H0543: 1.		
							S0440: 4, H0543: 4, H0656: 3, H0539: 3, H0521: 3, H0650: 2, H0341: 2, H0620: 2, H0355: 2, H0068: 2, T0041: 2, H0529: 2, L0439: 2, H0171: 1,		

HSPSB95	995590	272	2 - 838	2447	Pro-57 to Pro-64, Leu-137 to Ala-147, Ser-158 to Met-163	S0114: 1, H0657: 1, S0356: 1, S0442: 1, S0354: 1, S0410: 1, H0580: 1, H0728: 1, S0046: 1, S0132: 1, S0476: 1, S0222: 1, H0610: 1, H0613: 1, H0600: 1, H0587: 1, H0013: 1, H0505: 1, H0318: 1, H0309: 1, H0046: 1, H0009: 1, L0471: 1, S0051: 1, H0356: 1, H0510: 1, S6028: 1, H0687: 1, H0292: 1, H0428: 1, H0708: 1, H0494: 1, H0560: 1, S0294: 1, S0210: 1, L0517: 1, L0647: 1, H0726: 1, H0547: 1, H0658: 1, H0670: 1, H0518: 1, S0152: 1, H0522: 1, S0044: 1, H0555: 1, S3014: 1, S0027: 1, L0753: 1, L0731: 1, L0362: 1, H0542: 1, H0423: 1 and H0506: 1.		
					L0755: 16, L0754: 14, L0591: 11, S0408: 9, H0441: 9 L0748: 9			

Arg-239 to Phe-247, Leu-263 to Asn-268.	H0657: 7, L0776: 7, L0747: 7, H0135: 6, H0494: 6, L0649: 6, H0547: 6, L0439: 6, L0752: 6, L0758: 6, H0341: 5, H0046: 5, L0769: 5, L0771: 5, H0519: 5, L0731: 5, H0543: 5, S0134: 4, S0358: 4, S0360: 4, H0486: 4, H0083: 4, H0509: 4, L0774: 4, L0655: 4, L0438: 4, H0520: 4, L0777: 4, L0757: 4, H0265: 3, H0580: 3, S0132: 3, H0575: 3, H0581: 3, H0052: 3, L0471: 3, H0266: 3, H0687: 3, H0428: 3, H0551: 3, H0529: 3, L0517: 3, L0519: 3, L0666: 3, H0593: 3, H0658: 3, H0648: 3, H0521: 3, S0028: 3, L0742: 3, L0749: 3, L0597: 3, L0588: 3, L0589: 3, L0592: 3, L0485: 3, L0600: 3, H0624: 2, H0170: 2, S0418: 2,					
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H0412: 1, H0623: 1, H0059: 1, H0100: 1, S0016: 1, H0633: 1, H0646: 1, H0649: 1, S0144: 1, L0598: 1, L0369: 1, L0763: 1, L0631: 1, L0770: 1, L0637: 1, L0761: 1, L0373: 1, L0372: 1, L0773: 1, L0662: 1, L0626: 1, L0364: 1, L0794: 1, L0549: 1, L0498: 1, L0803: 1, L0775: 1, L0375: 1, L0651: 1, L0661: 1, L0540: 1, L0518: 1, L0783: 1, L0383: 1, L0382: 1, L0809: 1, L0528: 1, L0368: 1, L0532: 1, L0663: 1, L0664: 1, S0216: 1, H0698: 1, S0374: 1, S0122: 1, H0683: 1, H0684: 1, H0435: 1, H0670: 1, S0328: 1, S0330: 1, H0539: 1, S0380: 1, H0522: 1, S0013: 1, H0696: 1, H0134: 1, S3012: 1, S0027: 1, L0759: 1,					
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HCORG29	995806	273	1475 - 714	2448	Gly-1 to Ala-15, Ala-38 to Asp-46, Thr-56 to Leu-63, Glu-77 to Gly-83, Ile-102 to Gly-111, Pro-120 to Gly-128, Pro-130 to Asp-143, Lys-197 to Ser-211, Pro-217 to Tyr-247.	H0444: 1, L0681: 1, S0011: 1, S0192: 1, S0276: 1 and H0542: 1. H0556: 4, S0027: 4, S0358: 3, H0318: 3, H0545: 3, L0776: 3, S0380: 3, L0439: 3, L0747: 3, H0265: 2, H0341: 2, H0661: 2, S0045: 2, H0351: 2, H0012: 2, H0039: 2, L0766: 2, S0374: 2, S0126: 2, S0330: 2, S0152: 2, S3014: 2, S0206: 2, L0748: 2, L0740: 2, L0749: 2, L0755: 2, H0423: 2, H0624: 1, L0615: 1, S0040: 1, H0294: 1, H0650: 1, H0657: 1, H0656: 1, H0484: 1, H0483: 1, H0255: 1, H0663: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0360: 1, H0637: 1, H0580: 1, S0046: 1, S0132: 1, H0586: 1, H0486: 1, H0013: 1, H0042: 1, H0052: 1, H0596: 1,		
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HCRNO02	995894	274	537 - 319	2449	Phe-3 to Ala-9.	H0327: 1, S0388: 1, H0275: 1, H0083: 1, S0022: 1, S0214: 1, H0252: 1, H0604: 1, H0031: 1, H0628: 1, H0673: 1, H0135: 1, H0090: 1, H0591: 1, H0616: 1, H0551: 1, H0264: 1, H0623: 1, H0059: 1, H0494: 1, L0475: 1, H0561: 1, H0131: 1, S0344: 1, L0770: 1, L0769: 1, L0772: 1, L0804: 1, L0774: 1, L0655: 1, L0532: 1, H0144: 1, H0593: 1, H0659: 1, H0670: 1, H0704: 1, H0215: 1, S0406: 1, L0745: 1, L0596: 1, L0588: 1, S0026: 1, H0136: 1, S0276: 1, H0542: 1, H0543: 1 and S0460: 1.	8q21	124080, 202010, 202010, 214400, 602476, 602667
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HCBOI79	996247	275	42 - 701	2450	Pro-9 to Gln-15, Glu-37 to Ala-49, Glu-70 to Leu-78, Thr-99 to Thr-122, Leu-144 to Gln-150, Gln-161 to Arg-167.	H0670: 3, H0624: 1, H0661: 1, S0354: 1, S0360: 1, S0278: 1, H0559: 1, H0150: 1, H0024: 1, H0510: 1, H0551: 1, H0413: 1, S0328: 1, H0555: 1 and L0759: 1.		
HVCAB73	996337	276	84 - 1259	2451	Arg-4 to Gly-24, Lys-47 to Phe-55, Lys-61 to Ala-67, Gly-108 to Thr-114, Pro-184 to Pro-191, Pro-292 to Arg-299, Pro-355 to Glu-392.	H0046: 22, H0547: 15, L0748: 13, S0152: 9, H0013: 7, H0009: 7, H0031: 7, H0529: 7, H0519: 7, L0471: 6, H0024: 6, H0266: 6, H0090: 6, H0520: 6, H0542: 6, H0543: 6, H0521: 5, L0439: 5, H0422: 5, S0420: 4, H0373: 4, H0040: 4, H0494: 4, H0561: 4, L0747: 4, L0592: 4, L0593: 4, L0595: 4, S0026: 4, H0423: 4, H0556: 3, H0657: 3, H0656: 3, L0005: 3, S0354: 3, S0408: 3, H0580: 3, S0045: 3, S0046: 3, S0132: 3, S0278: 3, H0586: 3, T0110: 3, H0620: 3,		

	H0083: 3, S0022: 3, H0615: 3, H0135: 3, H0591: 3, H0623: 3, H0538: 3, H0144: 3, L0438: 3, H0624: 2, H0265: 2, T0002: 2, S0116: 2, H0341: 2, S0418: 2, S0442: 2, S0358: 2, H0619: 2, S0222: 2, H0587: 2, ♣ H0497: 2, H0331: 2, H0486: 2, H0069: 2, H0635: 2, H0575: 2, H0318: 2, H0581: 2, H0052: 2, H0544: 2, H0292: 2, S0003: 2, H0622: 2, H0553: 2, H0038: 2, H0634: 2, H0551: 2, H0379: 2, H0412: 2, H0056: 2, H0100: 2, S0144: 2, S0142: 2, L0626: 2, S0126: 2, H0435: 2, H0666: 2, S0330: 2, H0436: 2, H0626: 2, H0631: 2, S0027: 2, S0028: 2, L0740: 2, L0750: 2, H0445: 2, S0434: 2, L0588: 2, L0600: 2, H0170: 1.				
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	H0158: 1, S0040: 1, S0342: 1, S0134: 1, H0650: 1, H0255: 1, H0661: 1, H0663: 1, H0449: 1, H0125: 1, S0444: 1, H0675: 1, H0393: 1, H0370: 1, H0357: 1, H0333: 1, H0643: 1, H0574: 1, T0039: 1, H0706: 1, H0036: 1, H0390: 1, S0346: 1, H0421: 1, S0049: 1, H0196: 1, H0251: 1, H0085: 1, H0562: 1, H0123: 1, H0047: 1, H0023: 1, H0014: 1, H0051: 1, H0071: 1, H0356: 1, H0239: 1, H0594: 1, H0188: 1, H0687: 1, H0290: 1, S0312: 1, S0214: 1, L0194: 1, H0604: 1, H0628: 1, H0169: 1, H0674: 1, H0212: 1, S0366: 1, H0063: 1, H0269: 1, T0069: 1, L0351: 1, L0435: 1, T0041: 1, T0042: 1, S0440: 1, H0509: 1, S0150: 1,					
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HSDJH04	996619	277	114 - 419	2452	Arg-1 to Ser-20.	H0130: 1, H0633: 1, S0210: 1, L0598: 1, L0625: 1, L0649: 1, L0776: 1, L0517: 1, L0382: 1, L0367: 1, L0793: 1, L0663: 1, H0697: 1, H0593: 1, H0689: 1, H0670: 1, H0660: 1, S0380: 1, H0522: 1, H0694: 1, H0134: 1, S0406: 1, S0037: 1, L0754: 1, L0752: 1, L0755: 1, L0757: 1, L0759: 1, L0596: 1, L0599: 1, H0665: 1, H0667: 1, H0136: 1, S0196: 1, S0452: 1 and H0506: 1.	11p15	108985, 186921, 602092
HSOAN18	996804	278	630 - 409	2453	Val-1 to Asn-6.	L0731: 3, H0632: 1, H0052: 1, H0628: 1, L0766: 1, L0636: 1, L0545: 1, L0543: 1, H0658: 1, L0740: 1, L0750: 1, L0752: 1, S0260: 1 and H0293: 1. L0755: 3, L0766: 2, L0794: 1, L0759: 1 and H0343: 1.		
HHEHF49	996874	279	698 - 222	2454		H0684: 38, H0703: 27, H0685: 23, H0717: 21.		

HCHCF36	996903	280	10 - 711	2455	Lys-43 to Tyr-48, Arg-73 to Arg-79, Pro-183 to Gly-188, Pro-192 to Ser-201.	H0688: 21, H0687: 19, H0542: 19, H0722: 15, H0699: 14, H0716: 12, H0725: 9, H0494: 8, H0696: 7, H0689: 5, H0555: 5, H0708: 4, H0545: 3, H0695: 3, H0723: 3, H0724: 3, H0683: 3, H0521: 3, H0686: 2, H0713: 2, H0580: 2, H0546: 2, H0509: 2, H0593: 2, H0710: 2, H0709: 2, H0543: 2, H0712: 2, H0650: 1, H0675: 1, H0602: 1, H0586: 1, H0510: 1, H0488: 1, H0560: 1, S0422: 1, H0698: 1, H0691: 1, H0690: 1, H0682: 1, H0694: 1 and S0424: 1.	19q13.1- q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400,
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HAHCK58	997127	281	1 - 228	2456	Glu-1 to Thr-9, Asn-17 to Ser-34.	L0748: 16, S0007: 7, H0360: 7, H0046: 6, L0803: 5, L0747: 5, L0771: 4, L0794: 4, L0731: 4, H0486: 3, L0666: 3, L0663: 3, L0665: 3, L0439: 3, L0758: 3, H0637: 2, H0261: 2, S0222: 2, H0052: 2, S0051: 2, H0622: 2, H0169: 2, L0598: 2, L0637: 2, H0144: 2, H0436: 2, L0754: 2, H0170: 1, S0134: 1, H0650: 1, S0116: 1, S0282: 1, S0418: 1, S0376: 1, H0580: 1, S0045: 1, H0393: 1, L0622: 1, L0623: 1, S0280: 1,	L0762: 1, L0766: 1, L0791: 1, L0666: 1, H0547: 1, H0435: 1, H0521: 1, L0751: 1, L0750: 1 and L0780: 1.	172400, 173850, 180901, 180901, 207750, 221770, 248600, 258501, 600918, 602716
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HETJ06	997165	282	41 - 385	2457	Leu-6 to Ser-11.	L0021: 1, H0599: 1, H0318: 1, S0474: 1, H0150: 1, H0041: 1, H0050: 1, S0388: 1, H0271: 1, S0003: 1, H0673: 1, L0456: 1, H0135: 1, H0412: 1, H0056: 1, H0623: 1, S0386: 1, S0112: 1, H0494: 1, S0144: 1, S0344: 1, H0529: 1, L0763: 1, L0638: 1, L0646: 1, L0764: 1, L0766: 1, L0650: 1, L0375: 1, L0653: 1, L0776: 1, L0783: 1, L0543: 1, L0647: 1, L0787: 1, L0788: 1, L0664: 1, L0352: 1, H0547: 1, H0593: 1, H0690: 1, H0435: 1, H0670: 1, H0648: 1, H0672: 1, H0651: 1, H0539: 1, H0521: 1, H0522: 1, S3014: 1, S0027: 1, S0206: 1, L0759: 1, S0434: 1, L0595: 1, H0668: 1, S0026: 1 and H0293: 1.		
						S0402: 1, S0360: 1,		

HAPOE30	997595	283	244 - 759	2458	Glu-6 to Trp-12, Leu-36 to Glu-57, Pro-74 to Asn-88, Ser-119 to Glu-131, Pro-139 to Asp-153.	H0046: 1, H0252: 1 and H0428: 1. L0777: 9, L0803: 5, L0748: 5, L0663: 4, L0754: 4, L0747: 4, L0753: 4, L0758: 4, L0766: 3, H0659: 3, L0763: 2, L0519: 2, L0665: 2, S0126: 2, L0602: 2, L0439: 2, L0750: 2, T0002: 1, H0686: 1, S0040: 1, S0116: 1, S0222: 1, H0575: 1, H0122: 1, H0004: 1, H0309: 1, L0040: 1, L0163: 1, H0028: 1, H0615: 1, H0040: 1, L0770: 1, L0764: 1, L0773: 1, L0662: 1, L0794: 1, L0774: 1, L0805: 1, L0655: 1, L0657: 1, L0526: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, T0068: 1, H0670: 1, H0672: 1, L0744: 1, L0740: 1, L0751: 1, L0749: 1, L0779: 1, L0752: 1, L0731: 1, L0759: 1,	
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HRGDC33	997862	284	229 - 738	2459			L0591: 1 and S0011: 1. H0134: 1 and L0756: 1.		
HMTMB91	997873	285	1037 - 1174	2460	Lys-1 to Arg-46.		L0794: 11, L0803: 10, H0013: 6, H0090: 6, L0766: 6, L0663: 6, L0731: 6, H0457: 5, H0328: 5, L0493: 5, L0666: 5, L0777: 5, L0759: 5, L0754: 4, L0779: 4, H0305: 3, L0665: 3, H0144: 3, H0670: 3, H0696: 3, L0591: 3, H0657: 2, S0442: 2, S0360: 2, L0717: 2, H0600: 2, H0156: 2, H0590: 2, H0024: 2, H0615: 2, L0483: 2, T0042: 2, S0422: 2, H0529: 2, L0625: 2, L0805: 2, L0776: 2, L0655: 2, L0527: 2, S0374: 2, H0521: 2, H0436: 2, L0745: 2, L0588: 2, L0581: 2, L0361: 2, H0542: 2, S0424: 2, H0624: 1, H0171: 1, H0686: 1, T0049: 1, H0650: 1, H0656: 1,		

H0341: 1, H0589: 1, S0418: 1, S0356: 1, S0358: 1, S0376: 1, S0408: 1, H0329: 1, S0045: 1, H0369: 1, H0370: 1, H0455: 1, H0602: 1, H0586: 1, H0574: 1, H0486: 1, S0280: 1, L0021: 1, H0575: 1, H0036: 1, H0318: 1, H0263: 1, T0115: 1, H0545: 1, L0157: 1, H0123: 1, H0015: 1, S0388: 1, S0051: 1, H0375: 1, H0271: 1, H0188: 1, S0003: 1, H0688: 1, H0644: 1, L0055: 1, H0163: 1, H0038: 1, H0634: 1, H0551: 1, L0475: 1, S0352: 1, H0652: 1, S0208: 1, L0640: 1, L0763: 1, L0500: 1, L0769: 1, L0646: 1, L0648: 1, L0662: 1, L0498: 1, L0804: 1, L0650: 1, L0784: 1, L0806: 1, L0653: 1, L0606: 1, L0515: 1, L0659: 1,					
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HFAAD07	998059	286	238 - 957	2461	Ser-62 to Thr-67, Val-74 to Cys-79, Thr-118 to Gln-132, Glu-204 to Asp-219, Pro-225 to Arg-235.	L0526: 1, L0519: 1, L0788: 1, L0790: 1, L0791: 1, L0664: 1, S0296: 1, H0520: 1, H0547: 1, H0519: 1, S0126: 1, H0682: 1, H0659: 1, H0658: 1, H0660: 1, H0672: 1, S0380: 1, H0518: 1, H0525: 1, S0404: 1, S0406: 1, H0479: 1, S0432: 1, L0744: 1, L0750: 1, L0780: 1, L0753: 1, L0604: 1, S0106: 1, S0242: 1, S0196: 1, H0543: 1, H0423: 1 and S0452: 1, L0809: 5, L0439: 4, L0591: 2, S6024: 1, H0341: 1, H0346: 1, S0356: 1, S0358: 1, S0360: 1, L0040: 1, H0457: 1, H0494: 1, L0518: 1, L0666: 1, L0665: 1, S0330: 1, H0521: 1, L0752: 1, L0731: 1, L0758: 1, L0590: 1 and L0599: 1.		
HE8TG67	998517	287	1211 - 1360	2462	Pro-24 to His-31.	3q28.	165500, 600700	

HACNC39	998533	288	36 - 380	2463	Glu-14 to Lys-25.	L0748: 9, L0769: 7, L0776: 6, L0747: 6, L0768: 5, L0775: 5, L0750: 5, S0358: 4, S0144: 4, L0763: 4, L0731: 4, L0757: 4, L0588: 4, H0657: 3, S0046: 3, H0545: 3, S0438: 3, S0422: 3, L0770: 3, L0517: 3, S0406: 3, L0755: 3, T0049: 2, H0341: 2, S0408: 2, S0410: 2, H0580: 2, S0222: 2, H0586: 2, L0622: 2, T0109: 2, H0083: 2, H0551: 2, H0100: 2, H0396: 2, S0440: 2, S0210: 2, L0520: 2, L0764: 2, L0767: 2, L5574: 2, L0540: 2, L0518: 2, L0809: 2, S0330: 2, S0380: 2, L0758: 2, S0031: 2, H0543: 2, H0170: 1, H0685: 1, H0716: 1, H0295: 1, S0212: 1, S0110: 1, S0282: 1, S0420: 1, S0444: 1, H0351: 1, H0411: 1,		
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HCOQP78	998901	289	45 - 989	2464	Thr-10 to Ala-18, Pro-56 to His-64, Pro-66 to Leu-74, Ser-81 to Asp-86, Glu-93 to Trp-101, Leu-143 to Gln-151, Pro-162 to Asp-171, Thr-216 to Asp-224, Pro-235 to Gln-246, Lys-258 to Gly-268, Trp-283 to Gly-295.	S0396: 1. H0494: 4, L0794: 3, H0670: 2, L0751: 2, H0661: 1, H0602: 1, H0587: 1, H0014: 1, H0688: 1, L0376: 1, L0806: 1, L0657: 1 and L4501: 1.	19q13	109560, 205900, 600652, 600757
HCGMA67	998905	290	2 - 664	2465		H0521: 22, L0601: 8, H0266: 7, S0126: 7, L0748: 6, H0556: 4, S0356: 4, S0358: 4, H0052: 4, L0771: 4, L0655: 4, L0777: 4, H0599: 3, H0581: 3, H0046: 3, H0615: 3, H0038: 3, H0616: 3, S0144: 3, L0766: 3, L0664: 3, L0665: 3, H0547: 3, S014: 3, L0758: 3, L0759: 3, L0596: 3, H0542: 3, H0423: 3, H0295: 2, T0049: 2, S0360: 2, H0580: 2, S0045: 2, S0132: 2, H0393: 2,		

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HSKHK19	998968	291	2 - 673	2466	Ala-1 to Arg-26, Thr-32 to Gln-37.	L0605: 1, L0581: 1, L0595: 1, L0603: 1, H0665: 1, S0192: 1, H0543: 1 and H0422: 1. L0769: 7, L0751: 6, L0666: 4, L0749: 3, H0030: 2, S0002: 2, L0805: 2, L0653: 2, H0657: 1, H0675: 1, S0007: 1, L0717: 1, H0635: 1, L0021: 1, H0068: 1, H0494: 1, L0638: 1, L0639: 1, L0772: 1, L0764: 1, L0773: 1, L0648: 1, L0803: 1, L0784: 1, L0806: 1, L0657: 1, H0658: 1, S3014: 1, L0747: 1, L0750: 1, L0780: 1, L0759: 1, L0588: 1, L0601: 1 and H0542: 1.	7q35-q36	118425, 118425, 118425, 142335, 152427, 163729, 176450, 180105, 190605, 276000, 276000, 600510, 600725
HAGGR59	999124	292	30 - 596	2467	Asp-20 to Ile-37, Arg-63 to Met-71, Gly-80 to Gly-95, Lys-98 to Thr-162.	H0556: 1, H0650: 1, S0001: 1, S0376: 1, S0346: 1, H0328: 1, L0800: 1, L0649: 1, H0689: 1, H0660: 1 and H0445: 1.		
HOPKS83	999148	293	419 - 1894	2468	Pro-72 to Tyr-80, Pro-98 to Ser-108,	S0278: 22, L0439: 20, L0665: 16, L0438: 15,		

						Thr-132 to Gly-146, L0748: 15, L0747: 15, Pro-170 to Ala-177, H0521: 11, L0743: 10, Ser-265 to Pro-280, L0759: 10, S0144: 9, Pro-303 to Asp-309, L0666: 9, L0659: 8, Asp-349 to Ala-354, L0741: 8, S0049: 7, Arg-387 to Ser-393, S0002: 7, H0547: 7, Asn-434 to Tyr-439, S0126: 7, S0222: 6, Gln-452 to Gly-457, H0052: 6, H0457: 6, Asp-469 to Val-485, S0036: 6, H0539: 6, L0731: 6, L0757: 6, H0575: 5, H0012: 5, H0100: 5, L0649: 5, L0742: 5, L0751: 5, S0046: 4, H0333: 4, H0581: 4, H0188: 4, H0424: 4, L0770: 4, L0764: 4, L0662: 4, H0555: 4, L0758: 4, L0601: 4, H0295: 3, H0549: 3, S0290: 3, H0618: 3, H0086: 3, H0620: 3, H0024: 3, H0551: 3, L0526: 3, L0663: 3, H0670: 3, H0672: 3, L0755: 3, H0255: 2, S0418: 2, H0580: 2, H0393: 2, H0351: 2, H0550: 2, H0253: 2, H0545: 2, H0123: 2, H0290: 2,					
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	S0280: 1, H0599: 1, L0022: 1, H0590: 1, S0324: 1, H0251: 1, H0597: 1, H0327: 1, H0546: 1, H0081: 1, H0050: 1, H0014: 1, L0163: 1, H0051: 1, S0051: 1, T0010: 1, H0594: 1, H0266: 1, H0687: 1, H0292: 1, S0250: 1, H0688: 1, H0428: 1, L0483: 1, H0405: 1, H0124: 1, H0068: 1, H0163: 1, H0087: 1, H0077: 1, H0264: 1, H0433: 1, H0268: 1, H0413: 1, H0059: 1, H0102: 1, S0142: 1, S0210: 1, H0529: 1, L0520: 1, L0771: 1, L0363: 1, L0766: 1, L0375: 1, L0378: 1, L0805: 1, L0656: 1, L0558: 1, L0636: 1, L0783: 1, L0647: 1, L0789: 1, L0664: 1, S0006: 1, L0565: 1, H0689: 1, H0684: 1, H0658: 1, H0660: 1, H0522: 1,					
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							S0390: 1, S3014: 1, L0754: 1, L0752: 1, H0445: 1, H0668: 1, H0653: 1, H0665: 1, S0276: 1, H0542: 1, S0458: 1 and H0352: 1.			
HE8CY70	999157	294	691 - 1368	2469		Lys-117 to Pro-123, Asp-132 to Lys-137, Ala-153 to Met-158, Ser-166 to Asp-172, Lys-184 to Tyr-190, Glu-199 to Lys-205.	H0441: 3, H0672: 2, H0555: 2, H0208: 1, S6016: 1, S0222: 1, H0586: 1, H0013: 1, S0049: 1, H0052: 1, H0545: 1, H0046: 1, S0051: 1, T0023: 1, H0617: 1, H0264: 1, H0647: 1, L0438: 1, L0751: 1, L0756: 1 and H0506: 1.			
HPCTI53	999243	295	1 - 474	2470		Pro-1 to Pro-6, Thr-134 to Gln-140, Tyr-142 to Arg-150.	H0052: 45, H0384: 21, L0748: 20, S0222: 14, S0010: 9, H0441: 6, S0049: 6, L0456: 6, S0346: 5, L0769: 5, S6028: 4, H0428: 4, L0770: 4, L0638: 4, L0438: 4, H0659: 4, L0750: 4, L0753: 4, H0619: 3, S0300: 3, T0010: 3, S0036: 3, H0624: 2, H0717: 2, S6024: 2, H0156: 2,	Xq11		313700, 313700, 313700, 313700, 313700

H0036: 2, H0051: 2, S0388: 2, S0051: 2, H0071: 2, H0083: 2, T0006: 2, L0455: 2, L0598: 2, L0796: 2, L5575: 2, L0659: 2, L0665: 2, H0144: 2, H0547: 2, L0743: 2, L0439: 2, L0747: 2, L0749: 2, L0731: 2, L0592: 2, L0604: 2, H0171: 1, S0282: 1, S0029: 1, S0400: 1, S0360: 1, S0007: 1, S6026: 1, H0261: 1, H0431: 1, H0455: 1, H0438: 1, H0013: 1, S0280: 1, H0575: 1, H0434: 1, H0194: 1, L0040: 1, H0327: 1, H0150: 1, H0178: 1, H0569: 1, H0123: 1, H0012: 1, S0050: 1, H0015: 1, H0107: 1, H0375: 1, H0615: 1, H0424: 1, H0090: 1, H0412: 1, H0059: 1, T0069: 1, H0100: 1, T0041: 1, T0042: 1, L0475: 1, L0637: 1,					
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HOPKN50	999313	296	65 - 1582	2471	Glu-47 to Phe-69, Lys-76 to Lys-82, Gly-87 to Ser-98, Glu-107 to Asp-117, Leu-171 to Val-180.		H0341: 2, H0013: 2, L0471: 2, H0266: 2, H0144: 2, L0591: 2, S0011: 2, H0624: 1, H0657: 1, H0151: 1, H0083: 1, H0328: 1, H0316: 1, H0591: 1, H0616: 1, H0412: 1, H0561: 1, S0210: 1, H0684: 1, S0152: 1, L0748: 1, L0749: 1, S0026: 1, H0542: 1 and H0543: 1.			
HAPAI17	999778	297	2 - 115	2472	Val-13 to Gln-26.		H0042: 1, L0769: 1 and H0659: 1.			
HHAUV59	999808	298	14 - 715	2473	Glu-1 to Gly-12, Lys-32 to Arg-37, Asn-45 to Ser-58, Asp-82 to Gln-97, Gly-136 to Gln-142,		L0761: 3, H0740: 2, L0803: 2, L0718: 2, H0624: 1, S0418: 1, H0208: 1, H0013: 1, H0427: 1, H0544: 1,			

HTXL131	1000315	299	1 - 747	2474	Pro-176 to Pro-199, Val-219 to Pro-226. Ile-5 to Lys-10, Glu-47 to Leu-57, Glu-144 to Pro-151, Lys-212 to Asn-217, Pro-219 to Leu-228.	Pro-176 to Pro-199, Val-219 to Pro-226. Ile-5 to Lys-10, Glu-47 to Leu-57, Glu-144 to Pro-151, Lys-212 to Asn-217, Pro-219 to Leu-228.	H0622: 1, L0769: 1, L0789: 1, H0547: 1, H0519: 1, L0750: 1 and S0434: 1. L0803: 6, L0731: 6, L0596: 6, L0665: 5, H0591: 3, L0794: 3, L0804: 3, L0748: 3, L0777: 3, L0717: 2, H0586: 2, L0471: 2, H0622: 2, H0641: 2, L0771: 2, L0662: 2, L0766: 2, L0649: 2, L0664: 2, H0682: 2, H0670: 2, H0539: 2, H0518: 2, L0758: 2, L0759: 2, H0445: 2, S0242: 2, H0422: 2, H0171: 1, H0556: 1, H0657: 1, H0656: 1, H0341: 1, S0282: 1, S0354: 1, S0360: 1, H0574: 1, H0427: 1, H0575: 1, H0057: 1, H0014: 1, H0551: 1, H0646: 1, H0529: 1, L0763: 1, L0761: 1, L0764: 1, L5574: 1, L0775: 1, L0805: 1, L0776: 1, L0657: 1,		
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HDPUH64	1000339	300	2 - 499	2475			H0615: 5, L0766: 4, H0272: 1, H0560: 1, H0521: 1 and H0677: 1.			
HTTHS93	1000424	301	725 - 1024	2476			S0360: 2, H0266: 2, S0330: 2, L0748: 2, H0556: 1, S0442: 1, L0471: 1, H0024: 1, H0634: 1, H0494: 1, H0560: 1, L0800: 1, L0803: 1, H0435: 1, H0651: 1, H0521: 1, H0522: 1, S0406: 1, L0747: 1 and S0452: 1.			
HMVCG79	1000582	302	3 - 854	2477	Thr-40 to Arg-46, Leu-59 to Ser-68, Leu-236 to Thr-241, Asp-278 to His-284.		AR089: 6, AR060: 5, AR033: 4, AR104: 4, AR096: 4, AR039: 3, AR052: 3, AR053: 3, AR061: 2, AR055: 1 S0002: 4, S0206: 4, L0748: 2, L0740: 2, L0777: 2, S0212: 1, H0661: 1, S0278: 1, H0370: 1, H0123: 1,			

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HODHK20	1000669	303	52 - 648	2478		Gly-2 to Ile-8, Glu-13 to Ser-25, Glu-41 to Gly-52.	H0615: 2, S0376: 1, L0766: 1 and L0754: 1.			
HCHMO53	1000875	304	2 - 661	2479		Pro-2 to Gly-25, Gly-40 to Lys-62, Arg-73 to Ala-80, Phe-179 to Arg-184, Pro-190 to His-195, Glu-211 to Ala-219.	AR060: 16, AR052: 8, AR053: 7, AR033: 6, AR104: 6, AR089: 6, AR039: 5, AR061: 5, AR096: 4, AR055: 2 L0776: 8, L0731: 8, S0438: 6, L0752: 6, H0677: 6, S0410: 5, S0440: 5, L0764: 5, L0749: 5, T0049: 4, S0132: 4, L0766: 4, H0648: 4, L0759: 4, L0519: 3, H0684: 3, L0748: 3, L0747: 3, L0757: 3, S0358: 2, S0444: 2, T0006: 2, L0775: 2, L0806: 2, S0152: 2, L0751: 2, L0750: 2, L0758: 2, S0436: 2, H0423: 2, H0624: 1, H0556: 1, H0157: 1, H0295: 1,			

HFKKG84	1001066	305	1 - 666	2480	Gly-33 to Trp-52, Tyr-104 to Ser-110,	H0294: 1, S0114: 1, H0657: 1, H0656: 1, H0484: 1, S0356: 1, S0376: 1, S0360: 1, S0408: 1, S0007: 1, S0045: 1, H0586: 1, H0331: 1, T0109: 1, T0048: 1, L0040: 1, H0046: 1, S0051: 1, H0083: 1, H0606: 1, H0169: 1, H0316: 1, H0268: 1, H0412: 1, T0042: 1, S0464: 1, H0633: 1, L0763: 1, L0770: 1, L0769: 1, L0638: 1, L0771: 1, L0648: 1, L5564: 1, L0381: 1, L0774: 1, L0378: 1, L0655: 1, L0659: 1, L0809: 1, L0788: 1, L0532: 1, H0682: 1, H0659: 1, S0328: 1, S0380: 1, S0350: 1, H0696: 1, H0436: 1, L0753: 1, S0434: 1, L0592: 1, L0608: 1, H0668: 1 and S0026: 1.		
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					Ile-150 to Ala-157, Ser-159 to Ala-171, Gly-178 to Gly-186, Ala-188 to Ser-204.	22, AR061: 15, AR055: 13 L0766: 10, L0779: 5, L0770: 4, L0803: 4, L0769: 3, L0761: 3, L0747: 3, H0170: 2, H0686: 2, H0617: 2, L0800: 2, L0794: 2, L0806: 2, L0776: 2, L0754: 2, H0685: 1, H0295: 1, H0656: 1, H0402: 1, S0418: 1, H0486: 1, L0471: 1, H0620: 1, H0083: 1, H0688: 1, H0135: 1, H0625: 1, S0422: 1, L0772: 1, L0646: 1, L0643: 1, L0644: 1, L0764: 1, L0768: 1, L0807: 1, L0783: 1, H0522: 1, L0750: 1, L0777: 1, L0755: 1, L0731: 1, S0026: 1 and S0424: 1.			
HOFMT20	1001333	306	127 - 267	2481	Ser-5 to Glu-12.	H0415: 2			
HPAMB04	1001695	307	40 - 621	2482	Lys-106 to Leu-111.	H0641: 38, S0360: 10, L0731: 8, H0542: 7, H0422: 7, H0545: 6, H0521: 6, L0750: 6, H0423: 6, H0617: 5,			

H0689: 5, H0083: 4, H0494: 4, L0382: 4, H0682: 4, H0435: 4, L0747: 4, L0755: 4, H0159: 3, H0295: 3, H0255: 3, H0039: 3, H0087: 3, L0770: 3, L0768: 3, L0809: 3, S0328: 3, L0601: 3, H0402: 2, H0638: 2, S0132: 2, H0250: 2, H0581: 2, H0544: 2, H0546: 2, H0086: 2, L0769: 2, L0800: 2, L0773: 2, L0648: 2, L0665: 2, H0690: 2, H0659: 2, H0666: 2, H0522: 2, L0751: 2, L0754: 2, L0757: 2, L0596: 2, L0587: 2, L0591: 2, L0362: 2, H0556: 1, H0584: 1, H0685: 1, S0040: 1, H0294: 1, H0657: 1, H0663: 1, H0664: 1, H0125: 1, S0420: 1, S0376: 1, H0489: 1, H0580: 1, S0045: 1, H0069: 1, S0346: 1, H0251: 1, H0530: 1,						
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HODEK48	1001901	308	368 - 682	2483	Thr-2 to Gln-8, Glu-20 to Gly-26.	H0615: 2, L0794: 2 and H0266: 1.					
HVVCB28	1001954	309	328 - 807	2484	Ile-8 to Gly-13, Pro-62 to Phe-68, Gly-95 to Gly-101, Ser-108 to Val-114, Glu-129 to Leu-146.	H0617: 43, H0341: 38, S0046: 37, L0747: 34, S0126: 30, L0507: 29, L0500: 29, S0007: 28, H0087: 28, L0775: 28, L0509: 28, H0594: 27, H0333: 24, L0772: 24, S0132: 23, H0620: 23, L0502: 23, L0768: 21,	19q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 173850,			

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HCOOS01	1002071	310	3 - 701	2485					H0128: 1, T0042: 1, H0280: 1, L0475: 1, H0334: 1, H0625: 1, H0366: 1, H0509: 1, H0130: 1, H0641: 1, H0633: 1, H0026: 1, L0371: 1, L0646: 1, L0648: 1, L0364: 1, L0522: 1, L0784: 1, L0523: 1, L0655: 1, L0606: 1, L0558: 1, L0540: 1, L0526: 1, L0384: 1, L0544: 1, L0528: 1, L0663: 1, L0664: 1, S0216: 1, S0296: 1, H0682: 1, H0648: 1, S0330: 1, H0521: 1, H0522: 1, S0146: 1, H0187: 1, L0740: 1, L0749: 1, L0752: 1, H0343: 1, L0592: 1, L0593: 1, H0668: 1, H0653: 1, H0667: 1, S0194: 1, H0542: 1, S0424: 1 and H0293: 1.	1p34.1	120550, 120570, 120575, 121800,
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HDACA35	1002096	311	68 - 472	2486	Asp-1 to Lys-12, Pro-18 to Arg-26, Asp-51 to Val-74, Ala-80 to Leu-102.	AR039: 12, AR033: 6, AR053: 6, AR096: 6, AR055: 6, AR089: 5, AR104: 5, AR052: 5, AR060: 4, AR061: 3 H0497: 1, H0617: 1, L0769: 1, L0766: 1, L0775: 1, H0670: 1 and	L0637: 1, L0761: 1, L0373: 1, L0648: 1, L0521: 1, L0389: 1, L0376: 1, L0784: 1, L0523: 1, L0378: 1, L0527: 1, L0517: 1, L0383: 1, L0545: 1, L0541: 1, L0368: 1, L0352: 1, H0547: 1, H0689: 1, H0666: 1, H0539: 1, S0332: 1, S0044: 1, S0176: 1, S0146: 1, H0214: 1, H0478: 1, L0741: 1, L0749: 1, L0756: 1, L0759: 1, H0444: 1, H0343: 1, S0434: 1, L0361: 1, L0601: 1, L0366: 1, S0106: 1, H0667: 1, S0194: 1, H0423: 1, L0697: 1 and H0293: 1.		
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HOVDG59	1002328	312	1 - 639	2487	Pro-I to His-7, Glu-61 to Lys-67, Arg-94 to Phe-104, Pro-164 to Trp-169.	H0672: 1. AR052: 20, AR039: 14, AR053: 13, AR096: 11, AR033: 11, AR055: 9, AR089: 9, AR104: 8, AR061: 7, AR060: 6 L0438: 6, L0439: 6, L0776: 5, H0428: 4, L0805: 4, H0687: 3, L0770: 3, H0651: 3, L0789: 2, L0756: 2, L0758: 2, L0361: 2, S0212: 1, S0001: 1, H0351: 1, H0587: 1, H0581: 1, H0052: 1, H0327: 1, H0178: 1, L0769: 1, L0767: 1, L0794: 1, L0807: 1, S0152: 1, H0522: 1, L0731: 1, L0759: 1 and L0608: 1.			
HTJAD78	1002459	313	1236 - 196	2488	Thr-2 to Gln-13, Ser-23 to Ser-28, Ser-36 to Ser-42.	L0748: 29, L0581: 21, H0510: 8, H0255: 5, H0574: 5, H0506: 4, H0331: 3, H0581: 3, H0264: 3, L0803: 3, L0774: 3, L0663: 3, H0555: 3, S0116: 2, H0632: 2, H0087: 2,	14q32.33	144120, 147020, 147110	

HCDCF69	1002468	314	170 - 508	2489	Cys-20 to Gly-29.	H0509: 2, L0648: 2, L0378: 2, H0254: 1, H0486: 1, H0575: 1, H0057: 1, H0015: 1, H0553: 1, H0488: 1, H0487: 1, S0438: 1, L0775: 1, L0526: 1, L0664: 1, H0658: 1, L0743: 1, L0751: 1, L0779: 1, L0759: 1, H0444: 1, S0308: 1, H0595: 1 and L0605: 1.		
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HPTTW90	1002479	315	3 - 356	2490	Glu-80 to Arg-86.			L0439: 3, H0688: 2, S0142: 2, L0664: 2, H0521: 2, L0751: 2, S0418: 1, S0222: 1, S0250: 1, H0252: 1, H0213: 1, H0617: 1, H0641: 1, S0344: 1, L0371: 1, L0803: 1, L0653: 1, L0527: 1, L0659: 1, H0520: 1, L0780: 1 and H0423: 1.	4p16.3	134934, 134934, 134934, 134934, 134934, 143100, 180072, 180072, 194190, 252800, 252800, 252800, 600965	
HSUBG36	1002492	316	58 - 342	2491	Arg-7 to Val-13, Leu-28 to Arg-33, Ser-69 to Gln-76.			L0749: 9, L0766: 5, H0659: 5, H0657: 4, S0022: 4, S0438: 3, S0422: 3, L0521: 3, L0518: 3, L0783: 3, H0144: 3, L0758: 3, H0685: 2, H0656: 2.	1q32	114208, 114208, 119300, 120620, 120620, 120920, 134370.	

				H0341: 2, S0046: 2, H0393: 2, H0266: 2, L0520: 2, L0763: 2, L0770: 2, L0775: 2, L0657: 2, L0665: 2, H0547: 2, H0521: 2, L0747: 2, L0750: 2, S0446: 2, H0170: 1, S0040: 1, H0484: 1, H0662: 1, H0402: 1, S0356: 1, S0410: 1, H0580: 1, H0351: 1, H0333: 1, L0623: 1, H0486: 1, H0013: 1, H0599: 1, S0182: 1, H0581: 1, T0110: 1, H0009: 1, L0471: 1, T0023: 1, L0055: 1, H0169: 1, H0087: 1, T0067: 1, H0412: 1, H0413: 1, H0279: 1, H0494: 1, H0625: 1, H0396: 1, H0561: 1, S0144: 1, L0762: 1, L0502: 1, L0648: 1, L0653: 1, L0655: 1, L0663: 1, H0701: 1, H0519: 1, H0682: 1, H0648: 1, H0710: 1, S0152: 1, S0136: 1,	134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 600105, 600759, 601494, 601975
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HODFU72	1002527	317	3 - 1199	2492	Leu-14 to Asn-32, Ala-35 to Gly-40, Lys-51 to Ser-56, Ala-68 to Leu-78, Ile-91 to Lys-99, Gly-101 to Ala-124, His-141 to Lys-152, Ser-174 to Asp-181, Pro-203 to Leu-215, Lys-294 to Gly-301.			H0555: 1, S0028: 1, L0755: 1, L0757: 1, S0026: 1, H0136: 1, S0192: 1, H0542: 1, H0543: 1 and H0423: 1.		
								L0777: 9, L0754: 8, H0457: 6, H0251: 5, H0615: 5, L0757: 5, S0360: 4, H0031: 4, L0731: 4, H0445: 4, H0438: 3, L0369: 3, L0662: 3, L0766: 3, L0659: 3, S0126: 3, L0747: 3, H0013: 2, H0644: 2, H0628: 2, L0598: 2, L0770: 2, L0769: 2, L0775: 2, L0805: 2, L0666: 2, S0374: 2, H0682: 2, L0779: 2, L0758: 2, L0759: 2, L0599: 2, L0595: 2, H0543: 2, H0423: 2, H0170: 1, H0556: 1, S0040: 1, H0381: 1, L0481: 1, S0358: 1, S0376: 1, T0008: 1, S0046: 1, H0393: 1, L0717: 1, S0222: 1, H0587: 1, H0333: 1, H0642: 1,		

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HCNSES7	1002545	318	20 - 826	2493	Ser-80 to Gln-98.				H0615: 2			
HODJU13	1002546	319	2 - 121	2494	Thr-2 to Ser-9, Pro-23 to Glu-34.							
HODIL25	1002551	320	195 - 1556	2495	Ser-30 to Lys-46, Leu-55 to Gly-67, Ile-80 to Asp-85, Glu-146 to Arg-155, Asn-182 to Arg-192.				H0040: 6, H0013: 3, S0136: 3, L0777: 3, H0542: 3, H0171: 2, H0581: 2, H0328: 2, H0615: 2, L0662: 2, H0144: 2, L0731: 2, H0624: 1, H0170: 1, H0556: 1, S0282: 1, H0661: 1, H0176: 1, H0402: 1, S0354: 1, S0360: 1, H0393: 1, S6014: 1, H0574: 1, H0427: 1, H0575: 1, L0157: 1, S0003: 1, H0553: 1, H0090: 1, H0591: 1, T0067: 1, H0264: 1, H0412: 1, T0041: 1, H0494: 1, H0646: 1, S0002: 1, L0646: 1, L0642: 1, L0645: 1, L0651: 1, L0655: 1, L0659: 1, L0791: 1, L0666: 1,			

HUVHS56	1002563	321	162 - 791	2496	Gln-34 to Pro-41, Lys-60 to Thr-71, Val-78 to Gln-86, His-139 to Tyr-149, Arg-183 to His-191.	H0520: 1, H0547: 1, H0519: 1, H0689: 1, H0659: 1, H0521: 1, H0696: 1, L0747: 1, L0758: 1, S0192: 1, S0242: 1 and H0422: 1, L0803: 4, L0793: 4, L0749: 4, L0438: 3, L0439: 3, S0420: 2, H0485: 2, H0038: 2, H0561: 2, L0804: 2, L0747: 2, L0779: 2, L0591: 2, H0265: 1, H0556: 1, S0418: 1, H0728: 1, H0208: 1, H0619: 1, S0278: 1, H0486: 1, H0244: 1, H0052: 1, S0366: 1, H0598: 1, H0623: 1, L0640: 1, L0364: 1, L0774: 1, L0776: 1, L0807: 1, L0659: 1, L0809: 1, L0791: 1, S0374: 1, H0520: 1, H0547: 1, H0521: 1, H0522: 1, S3014: 1, L0752: 1, L0759: 1, H0445: 1, S0436: 1 and L0599: 1.		
HPMJO18	1002565	322	392 - 823	2497	Gln-29 to Gln-42.	H0644: 4, S0036: 1 and		

HLHCI46	1002591	323	114 - 923	2498	Glu-1 to Asp-13, His-55 to Leu-66, Gln-69 to Cys-79, Thr-81 to Asp-90, Gln-132 to Arg-141, Asp-158 to Trp-169, Lys-171 to Asn-180, His-208 to Arg-221, Pro-229 to Glu-237.	H0521: 1. L0591: 15, L0751: 13, L0665: 11, L0754: 9, H0689: 6, L0750: 6, H0362: 3, H0688: 3, H0617: 3, L0774: 3, L0657: 3, H0658: 3, H0575: 2, H0615: 2, H0059: 2, H0690: 2, H0660: 2, S0328: 2, S0330: 2, L0743: 2, L0756: 2, L0755: 2, H0671: 1, H0282: 1, H0024: 1, T0006: 1, H0644: 1, H0647: 1, L0769: 1, L0662: 1, L0803: 1, L0806: 1, L0783: 1, L0809: 1, L0664: 1, H0682: 1, L0748: 1, L0596: 1 and L0599: 1.		
HAOSD18	1002607	324	29 - 1408	2499	Arg-12 to Arg-19, His-62 to Leu-73, Ser-103 to Thr-111, Asn-147 to Val-158, Phe-207 to Trp-213, Lys-243 to Lys-276, Ala-281 to Cys-289, Pro-297 to Pro-302, Glu-315 to Asp-324.			

HACNG47	1002610	325	2 - 361	2500	His-336 to Trp-342, Arg-371 to Lys-377, Asp-416 to Thr-432.			
HOPJX95	1002729	326	229 - 681	2501	Pro-1 to Lys-7. Val-105 to Ile-113, Asp-128 to Phe-137, Arg-145 to Arg-151.			
					H0341: 33, S0126: 19, L0471: 17, H0087: 17, H0659: 17, H0670: 17, H0333: 14, H0024: 14, H0685: 13, S0114: 13, S0358: 13, H0648: 13, S0046: 12, L0742: 12, L0588: 12, S0278: 11, H0594: 11, H0352: 11, S0134: 10, L0748: 10, S0116: 9, H0620: 9, L0754: 9, L0750: 9, H0422: 9, H0255: 8, S0007: 8, S0132: 8, H0318: 8, H0081: 8, H0012: 8, H0083: 8, S3012: 8, S3014: 8, H0543: 8, H0265: 7, H0009: 7, H0039: 7, S0027: 7, S0028: 7, H0295: 6, H0657: 6, L0622: 6, L0540: 6, H0436: 6, H0576: 6, H0624: 5, S0360: 5, H0351: 5, L0623: 5, H0069: 5, H0530: 5,			19q

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HSCLR05	1002807	327	3 - 242	2502	Lys-1 to Asn-10, Phe-40 to Gly-55, Asn-61 to Arg-66.	H0521: 1, S0118: 1, L0752: 1, L0753: 1, L0759: 1, H0595: 1, L0587: 1, L0589: 1, L0605: 1, L0599: 1, S0026: 1, H0653: 1, H0217: 1, S0194: 1, S0424: 1, S3018: 1, S0384: 1, S0446: 1 and H0293: 1.		
HVVAO74	1002811	328	37 - 831	2503	Pro-107 to Gly-118, Gly-128 to Ser-140, Asp-148 to Glu-166, Ala-173 to Ala-186, Arg-196 to Ala-210, Ile-219 to Trp-228, Asn-238 to Met- 251.	L0748: 3, H0486: 1, H0428: 1, H0034: 1, H0690: 1, H0435: 1, H0658: 1, H0653: 1 and L0465: 1. L0777: 17, L0766: 11, S0360: 10, L0748: 10, H0620: 8, H0124: 8, L0770: 8, H0295: 7, S0408: 7, S0046: 6, L0775: 6, L0659: 6, L0744: 6, L0595: 6, S0278: 5, S0440: 5, L0769: 5, L0655: 5, L0657: 5, L0666: 5, L0731: 5, H0556: 4, H0484: 4, S0358: 4, H0580: 4, S0222: 4, H0559: 4, H0052: 4, H0545: 4, H0673: 4,	12q23-q24	113100, 124200, 147440, 158590, 160781, 163950, 163950, 235800, 251170, 276710, 600175, 601517

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			H0318: 1, S0474: 1, H0196: 1, H0251: 1, H0085: 1, H0204: 1, H0596: 1, H0597: 1, H0327: 1, H0546: 1, H0086: 1, H0081: 1, H0050: 1, H0373: 1, S0051: 1, T0010: 1, H0375: 1, S6028: 1, H0271: 1, S0334: 1, H0284: 1, S0250: 1, S0003: 1, S0214: 1, H0328: 1, H0213: 1, H0628: 1, H0169: 1, H0674: 1, S0366: 1, H0316: 1, H0598: 1, H0163: 1, H0591: 1, H0038: 1, H0056: 1, H0561: 1, S0464: 1, S0466: 1, S0150: 1, S0142: 1, S0426: 1, H0529: 1, L0772: 1, L0373: 1, L0372: 1, L0771: 1, L0363: 1, L0768: 1, L0649: 1, L0804: 1, L0650: 1, L0375: 1, L0784: 1, L0658: 1, L0635: 1, L0542: 1, L0526: 1, L0518: 1, L0519: 1,					
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HVVB181	1003126	329	199 - 843	2504	Asp-45 to Pro-56, Thr-86 to Ser-91, Pro-127 to Arg-133, Asp-201 to Gln-215.	L0529: 1, L0647: 1, S0428: 1, H0698: 1, H0702: 1, L0565: 1, H0520: 1, H0690: 1, H0682: 1, H0684: 1, H0659: 1, H0670: 1, S0328: 1, H0539: 1, S0378: 1, S0380: 1, H0709: 1, S0044: 1, S0404: 1, H0436: 1, H0576: 1, S0037: 1, L0741: 1, L0755: 1, S0434: 1, L0597: 1, L0589: 1, L0608: 1, L0366: 1, S0026: 1, S0194: 1, S0276: 1, H0423: 1 and H0352: 1.	19q13.1- q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400, 172400, 173850, 180901, 180901,
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HVVBK18	1003155	330	185 - 925	2505	Lys-75 to Lys-80, Leu-138 to Tyr-144, Tyr-153 to Pro-159.	L0740: 11, L0751: 11, L0731: 7, L0758: 7, H0659: 6, H0672: 6, L0748: 6, L0759: 6, H0251: 5, H0441: 4, L0766: 4, L0806: 4, S0040: 3, H0551: 3, H0412: 3, S0422: 3, L0774: 3, L0775: 3, H0648: 3, H0521: 3, L0754: 3, L0747: 3, L0752: 3, L0755: 3, S0026: 3, H0624: 2, H0341: 2, S0298: 2, S0358: 2, S0360: 2, S0046: 2, H0333: 2, H0318: 2, H0009: 2, H0024: 2, H0083: 2, S0214: 2, H0617: 2.	1p34.2	120550, 120570, 120575, 121800, 130500, 133200, 138140, 171760, 171760, 255800	

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HOFMS19	1003222	331	12 - 317	2506			H0415: 2	21q11.2- q21.1	159595		
HSCLM55	1003224	332	1 - 768	2507		Phe-2 to Asp-14, Leu-35 to Ile-42, Leu-63 to Lys-69, Thr-79 to Glu-84, Ile-137 to Gln-149, Thr-195 to Asp-200, Lys-216 to Glu-222, Asn-228 to Asn- 233.					
HETJU23	1003706	333	860 - 1477	2508			AR055: 9, AR061: 8,				

							AR033: 6, AR060: 6, AR052: 5, AR089: 4, AR053: 3, AR096: 2, AR039: 2, AR104: 1 L0749: 4, L0794: 3, H0658: 3, H0046: 2, L0803: 2, L0666: 2, L0663: 2, L0777: 2, H0556: 1, H0351: 1, H0253: 1, H0014: 1, T0023: 1, H0038: 1, H0477: 1, H0412: 1, L0370: 1, L0763: 1, L0769: 1, L0639: 1, L0800: 1, L0768: 1, L0649: 1, L0804: 1, L0776: 1, L0367: 1, L0438: 1, H0435: 1, H0670: 1, H0666: 1, H0522: 1 and L0759: 1.				
HNOKB73	1004480	334	3 - 515	2509			S0192: 130, L0659: 16, L0666: 10, S0360: 7, L0771: 6, S0194: 5, L0662: 4, S0196: 4, L0665: 3, H0251: 2, H0252: 2, L0598: 2, L0638: 2, L0637: 2, L0649: 2, L0783: 2, H0684: 2, H0170: 1, H0687: 1, S0250: 1,				

									H0428: 1, H0048: 1, H0591: 1, L0774: 1, L0806: 1, L0809: 1, L0790: 1, L0664: 1, H0690: 1, L0751: 1, L0756: 1, L0758: 1, S0436: 1 and S0242: 1.			
HODFB06	1004583	335	392 - 550	2510					Phe-11 to Gly-16, Gln-44 to Ile-53.	H0615: 3 and L0740: 1.		
HODJA76	1004619	336	198 - 302	2511					Ser-1 to Cys-12, Gly-16 to Val-29.	H0615: 1		
HODJY60	1004625	337	111 - 683	2512					Arg-1 to Gly-8, Thr-82 to Thr-95, Ser-104 to Ile-110, Asn-136 to Glu-141.	L0803: 11, L0748: 11, L0777: 10, L0754: 8, L0759: 6, S0126: 5, S0358: 3, L0804: 3, L0439: 3, L0740: 3, L0747: 3, L0731: 3, L0758: 3, L0415: 2, S0360: 2, H0437: 2, H0457: 2, S0003: 2, H0615: 2, L0774: 2, L0775: 2, L0375: 2, L0666: 2, S0328: 2, L0750: 2, L0779: 2, L0752: 2, L0755: 2, L0757: 2, H0341: 1, H0637: 1, H0580: 1, H0592: 1, L0021: 1, T0110: 1, H0620: 1, H0266: 1, S0314: 1,		

							H0039: 1, H0031: 1, H0553: 1, L0055: 1, T0067: 1, H0412: 1, H0494: 1, H0561: 1, L0763: 1, L0772: 1, L0800: 1, L0764: 1, L0771: 1, L0766: 1, L0382: 1, L0809: 1, L0790: 1, L0532: 1, L0665: 1, H0144: 1, H0520: 1, H0682: 1, H0658: 1, H0648: 1, H0672: 1, S0044: 1, H0436: 1, L0756: 1, L0608: 1, S0026: 1, H0543: 1 and S0424: 1. H0615: 2			
HODEF10	1004627	338	1 - 231	2513	His-7 to Gly-17, Phe-24 to Trp-40.					
HODFB03	1004631	339	1 - 711	2514	Gln-24 to Leu-29, His-38 to Asn-50, Gly-117 to Tyr-128, Ser-135 to Pro-147.	S0354: 1, H0083: 1, H0615: 1 and H0665: 1.	6p12-p11.1	180297, 230450, 263200, 601690		
HPMLN08	1004632	340	518 - 1294	2515		L0752: 14, L0777: 12, L0754: 11, L0731: 11, H0692: 10, L0758: 8, L0766: 6, L0759: 6, S0358: 5, L0809: 5, S0222: 4, S0003: 4, H0328: 4, L0769: 4, L0771: 4, L0803: 4,				

	L0740: 4, S0194: 4, L0005: 3, S0360: 3, H0068: 3, H0494: 3, L0774: 3, L0775: 3, L0776: 3, H0521: 3, L0747: 3, L0749: 3, L0757: 3, H0170: 2, H0713: 2, S0444: 2, H0427: 2, H0156: 2, S0010: 2, L0157: 2, H0687: 2, T0006: 2, H0628: 2, H0169: 2, H0598: 2, L0662: 2, L0768: 2, L0805: 2, L0666: 2, L0438: 2, H0547: 2, H0670: 2, H0648: 2, H0539: 2, L0748: 2, L0589: 2, L0599: 2, H0556: 1, T0002: 1, L0002: 1, H0341: 1, H0720: 1, S0400: 1, H0483: 1, H0402: 1, H0638: 1, S0442: 1, S0376: 1, H0733: 1, S0132: 1, H0645: 1, L0717: 1, H0431: 1, H0331: 1, H0486: 1, H0013: 1, H0036: 1, H0590: 1, H0052: 1, H0309: 1,							
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						L0608: 1, L0362: 1, H0668: 1, S0026: 1, H0653: 1 and H0423: 1.			
HODEH08	1004633	341	1 - 378	2516		H0032: 5, H0620: 4, H0599: 3, H0024: 3, H0615: 3, H0556: 2, H0141: 2, H0585: 2, S0420: 2, H0014: 2, H0212: 2, L0748: 2, L0740: 2, H0624: 1, H0170: 1, H0149: 1, H0484: 1, H0580: 1, H0393: 1, H0370: 1, H0592: 1, H0318: 1, S0049: 1, H0052: 1, H0530: 1, H0081: 1, H0012: 1, H0023: 1, H0286: 1, H0039: 1, H0135: 1, H0272: 1, H0412: 1, H0059: 1, S0440: 1, H0132: 1, S0002: 1, L0602: 1, L0746: 1, H0445: 1 and H0506: 1.			
HEGBF25	1004635	342	57 - 773	2517	Ala-1 to Gly-23, Gly-26 to Leu-32, Leu-53 to Leu-65, Gln-145 to Thr-151.	AR096: 1, AR089: 1, AR104: 0, AR055: 0, AR060: 0, AR061: 0 L0761: 3, L0439: 3, L0747: 3, L0766: 2, H0659: 2, L0779: 2,			

								L0777: 2, H0170: 1, S0360: 1, H0550: 1, H0023: 1, H0018: 1, H0641: 1, L0763: 1, L0769: 1, L0764: 1, L0803: 1, L0774: 1, L0655: 1, L0666: 1, H0648: 1 and H0436: 1.			
HODJB51	1004643	343	201 - 272	2518	Ser-1 to Asp-19.			H0328: 1 and H0615: 1.			
HODEC38	1004648	344	2 - 208	2519				L0764: 9, L0747: 6, L0766: 5, L0070: 5, L0748: 4, L0662: 3, L0749: 3, L0758: 3, L0759: 3, L0601: 3, H0574: 2, H0014: 2, H0615: 2, L0529: 2, L0666: 2, L0596: 2, H0265: 1, H0556: 1, H0583: 1, S0356: 1, S0360: 1, S0222: 1, H0486: 1, L0021: 1, H0581: 1, H0309: 1, H0545: 1, H0172: 1, H0188: 1, S0214: 1, H0252: 1, H0328: 1, H0674: 1, L0456: 1, H0625: 1, H0561: 1, S0426: 1, L0763: 1, L0769: 1, L0646: 1,			

HODIQ24	1004660	345	3 - 236	2520	Arg-6 to Gly-11, Pro-18 to Glu-33, Ala-48 to Asp-68.	L0641: 1, L0645: 1, L0773: 1, L0768: 1, L0794: 1, L0551: 1, L0774: 1, L0775: 1, L0375: 1, L0378: 1, L0805: 1, L0655: 1, L0658: 1, L0659: 1, L0783: 1, L0532: 1, L0664: 1, H0521: 1, L0611: 1, S0432: 1, L0757: 1, L0589: 1, L0591: 1, L0599: 1, H0543: 1 and H0423: 1. L0794: 7, L0776: 4, L0740: 4, H0046: 3, L0805: 3, L0749: 3, H0624: 2, S0282: 2, L0157: 2, H0615: 2, L0663: 2, H0519: 2, L0748: 2, L0747: 2, L0777: 2, L0731: 2, H0686: 1, H0294: 1, H0486: 1, H0349: 1, H0009: 1, H0178: 1, H0050: 1, L0471: 1, H0328: 1, H0030: 1, H0412: 1, S0448: 1, L0764: 1, L0662: 1, L0807: 1, L0789: 1, L0792: 1, L0666: 1,		
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HVVDD56	1004887	346	399 - 1400	2521	Asn-32 to Glu-42, Leu-59 to Ala-66, Leu-73 to Arg-78, Leu-100 to Leu-110, Asp-155 to Thr-161, Thr-166 to Cys-173, Leu-214 to Ser-220, Ser-227 to Lys-232, Arg-236 to Gly-242, Phe-257 to Asp-264, Arg-309 to Ala-314.	H0581: 8, H0422: 7, L0766: 5, H0521: 4, L0588: 4, S0360: 3, H0486: 3, L0663: 3, H0436: 3, S0434: 3, H0583: 2, S0298: 2, S0354: 2, S0408: 2, H0046: 2, H0622: 2, H0090: 2, H0494: 2, L0761: 2, L0655: 2, L0659: 2, H0518: 2, H0522: 2, H0696: 2, L0777: 2, H0445: 2, H0423: 2, H0556: 1, S0430: 1, H0650: 1, H0657: 1, S0116: 1, S0356: 1, S0376: 1, H0580: 1, H0586: 1, L0586: 1, H0250: 1, L0021: 1, T0071: 1, H0596: 1, H0644: 1, H0264: 1, H0412: 1, H0561: 1, S0440: 1, H0641: 1, H0649: 1, L0770: 1, L5565: 1, L0372: 1, L0642: 1,		

HTHVDV01	1004950	347	3 - 1292	2522	His-1 to Arg-20, Ala-30 to Ala-38, Ala-58 to Ser-69, Ser-138 to Pro-143, Leu-182 to Lys-198, Cys-204 to Thr-212, Ala-217 to Leu-229, Leu-237 to Lys-242, Asn-295 to Ser-302, Leu-314 to Phe-319, Ser-327 to Ser-338, Arg-409 to Ser-423.	L0387: 1, L0381: 1, L0775: 1, L0527: 1, L0664: 1, L0665: 1, S0216: 1, S0374: 1, L0565: 1, H0684: 1, H0435: 1, H0659: 1, H0648: 1, H0672: 1, H0710: 1, H0555: 1, L0748: 1, L0754: 1, L0749: 1, L0756: 1, H0595: 1 and H0543: 1.	14q24.3	104311, 109150, 182600, 245200, 601208
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	S0442: 5, H0580: 5, H0156: 5, H0457: 5, H0615: 5, H0622: 5, H0063: 5, L0776: 5, H0648: 5, H0263: 4, H0179: 4, H0031: 4, H0163: 4, L0764: 4, L0649: 4, L0438: 4, H0672: 4, L0439: 4, H0677: 4, L0600: 4, S0116: 3, S0444: 3, H0619: 3, H0421: 3, H0032: 3, S0438: 3, S0440: 3, L0598: 3, L0803: 3, L0809: 3, L0532: 3, L0664: 3, L0665: 3, H0689: 3, S0378: 3, L0756: 3, H0624: 2, H0556: 2, H0402: 2, S0356: 2, S0376: 2, S0046: 2, S0222: 2, H0574: 2, H0635: 2, H0575: 2, H0036: 2, H0597: 2, H0544: 2, H0046: 2, H0123: 2, H0050: 2, H0014: 2, H0201: 2, T0010: 2, H0355: 2, H0135: 2, T0004: 2, S0344: 2, S0002: 2,	
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HVVDJ95	1005153	348	203 - 400	2523	Pro-52 to Gly-58.	H0068: 1, H0038: 1, H0155: 1, S0294: 1, H0509: 1, H0131: 1, L0762: 1, L0763: 1, L0371: 1, L0638: 1, L5565: 1, L0373: 1, L0771: 1, L0768: 1, L0364: 1, L0650: 1, L0632: 1, L0523: 1, L0655: 1, L0783: 1, L0530: 1, L0647: 1, L0663: 1, H0725: 1, H0693: 1, L0352: 1, H0690: 1, H0660: 1, S0330: 1, S0380: 1, H0709: 1, S0350: 1, S0190: 1, S0404: 1, H0478: 1, L0611: 1, S3014: 1, S0027: 1, S0206: 1, L0740: 1, L0780: 1, L0731: 1, S0260: 1, H0445: 1, H0343: 1, L0599: 1, L0361: 1, S0462: 1 and S0456: 1.	9q34	125270, 125270, 128100, 137350, 191100,
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								215700, 223360, 268900, 601850	
HODIY29	1005236	349	2115 - 1081	2524	Lys-1 to Phe-58, Pro-62 to Ser-105, Arg-118 to Asp-154, Pro-181 to Pro-187, Ala-215 to Asp-221, Pro-228 to Phe-240, Pro-264 to Ser-269, Ser-281 to Asp-291, Glu-301 to Phe-314.		L0748: 11, H0591: 2, L0779: 2, L0758: 2, H0624: 1, S0342: 1, S0045: 1, H0351: 1, H0427: 1, S0010: 1, H0052: 1, H0251: 1, N0006: 1, L0471: 1, H0266: 1, H0615: 1, H0622: 1, H0031: 1, H0090: 1, H0038: 1, L0769: 1, L0761: 1, L0766: 1, L0774: 1, L0657: 1, H0593: 1, H0521: 1, H0555: 1, L0744: 1, L0747: 1, L0750: 1 and L0777: 1.	21q22.1- q22.2	147450, 176261, 253270, 601399
HOELP29	1005359	350	3 - 1013	2525	Lys-5 to Leu-10, Ser-20 to Glu-30, Leu-32 to Thr-37.		L0755: 11, L0766: 4, L0747: 4, L0764: 2, L0663: 2, H0556: 1, H0686: 1, S0444: 1, S0408: 1, H0580: 1, H0722: 1, H0290: 1, L0483: 1, H0165: 1, H0494: 1, H0132: 1, S0150: 1, S0208: 1, L0772: 1, L0768: 1,	1p32	120950, 120960, 138140, 178300, 187040, 600101, 600650, 600650, 600722, 600722

								L0784: 1, L0805: 1, H0547: 1, S0126: 1, H0659: 1, H0660: 1, H0627: 1, L0749: 1, L0779: 1, L0731: 1, L0757: 1 and H0668: 1.			
HWLFG04	1005384	351	2 - 1015	2526				Lys-9 to Thr-17, Lys-41 to Asn-55, Leu-57 to Asn-65, Val-67 to Asn-79, Ile-122 to Cys-132, Leu-135 to Ala-147, Gln-175 to Ala-197, Pro-227 to Thr-251, Pro-253 to Gly-264, Pro-288 to Glu-296, Gln-312 to Val-321.	7p15	138079, 138079, 139191, 142959, 153880, 180104, 600994, 601649	
HYAAC49	1005511	352	2 - 781	2527				AR089: 5, AR096: 5, AR053: 4, AR060: 3, AR039: 3, AR033: 3, AR055: 2, AR104: 2, AR061: 1 H0583: 1 and H0036: 1.			
HCOOA71	1005843	353	68 - 205	2528				Thr-34 to Ser-46.			

HOUFB45	1005974	354	879 - 478	2529	Ser-1 to Ser-7, Gly-21 to Arg-37.	L0740: 3, H0581: 2, H0546: 2, H0024: 2, L0521: 2, L0375: 2, H0670: 2, L0748: 2, L0758: 2, L0759: 2, H0171: 1, S0360: 1, H0351: 1, L0622: 1, H0052: 1, H0424: 1, H0617: 1, H0087: 1, H0059: 1, H0494: 1, H0646: 1, L0369: 1, L0763: 1, L0766: 1, L0776: 1, L0657: 1, L0789: 1, L0666: 1, L0663: 1, L0565: 1, H0658: 1, L0439: 1, L0750: 1, L0753: 1 and L0757: 1.	22q11.23	123620, 600850
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HUSJ114	1006018	355	399 - 2081	2530	Lys-5 to Met-10, Lys-79 to Ser-86, Ser-145 to Leu-154.	L0657: 1, L0656: 1, L0783: 1, L0791: 1, L0666: 1, L0663: 1, L0438: 1, H0547: 1, H0672: 1, H0436: 1, L0748: 1, L0747: 1, L0749: 1, L0777: 1, L0758: 1 and L0608: 1. L0439: 13, L0777: 9, L0717: 8, L0748: 6, L0659: 5, L0747: 4, H0318: 3, L0665: 3, L0779: 3, H0170: 2, H0212: 2, L0455: 2, L0764: 2, L0662: 2, L0768: 2, L0766: 2, L0775: 2, L0655: 2, H0520: 2, H0672: 2, L0746: 2, L0755: 2, L0758: 2, L0759: 2, L0595: 2, H0624: 1, H0171: 1, H0685: 1, H0661: 1, H0402: 1, S0046: 1, H0333: 1, T0109: 1, H0013: 1, S0280: 1, L0021: 1, H0590: 1, H0581: 1, H0374: 1, H0596: 1, L0471: 1, H0014: 1, S0051: 1, S0003: 1,		
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HMCDB21	1006055	356	411 - 509	2531	Asn-1 to Arg-13.			L0794: 2, L0776: 2, L0745: 2, L0758: 2, S0260: 2, S0142: 1, L0500: 1 and H0648: 1.			
HSDEY08	1006142	357	594 - 1136	2532	Leu-25 to Phe-35, Lys-48 to Asp-54, Arg-62 to Phe-72, Tyr-92 to Leu-99.			L0534: 10, L0747: 10, L0769: 8, L0751: 7, L0592: 5, H0545: 4, L0770: 4, L0761: 4, L0438: 4, H0599: 3, T0010: 3, H0553: 3, L0646: 3, H0547: 3, S0028: 3, H0101: 2,			

H0546: 2, H0050: 2, L0662: 2, L0794: 2, L0774: 2, L0378: 2, S0380: 2, L0752: 2, L0755: 2, L0758: 2, S0436: 2, L0603: 2, S0040: 1, H0295: 1, H0255: 1, S0418: 1, S0444: 1, S0360: 1, S0408: 1, H0580: 1, H0559: 1, H0156: 1, H0575: 1, H0706: 1, H0253: 1, H0457: 1, H0562: 1, H0566: 1, H0081: 1, L0471: 1, H0373: 1, H0083: 1, S6028: 1, H0266: 1, H0271: 1, S0250: 1, H0428: 1, H0617: 1, H0124: 1, H0708: 1, S0366: 1, H0135: 1, H0087: 1, H0551: 1, H0264: 1, H0488: 1, H0623: 1, T0041: 1, H0429: 1, H0561: 1, H0132: 1, H0130: 1, L0796: 1, L0639: 1, L0667: 1, L0764: 1, L0765: 1, L0768: 1, L0651: 1, L0805: 1,
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HOOJT92	1006215	358	41 - 172	2533	Ser-9 to Glu-18, Asp-22 to Asp-30.	L0776: 1, L0636: 1, L0809: 1, L0791: 1, L4501: 1, L0666: 1, L0663: 1, L0665: 1, S0428: 1, H0693: 1, H0520: 1, H0519: 1, H0690: 1, H0684: 1, H0670: 1, H0660: 1, H0648: 1, H0521: 1, H0134: 1, H0436: 1, L0612: 1, S0037: 1, L0742: 1, L0743: 1, L0744: 1, L0748: 1, L0439: 1, L0777: 1, L0780: 1, L0757: 1, L0759: 1, S0031: 1, S0434: 1 and S0192: 1. L0748: 20, L0731: 10, L0776: 7, L0766: 6, L0754: 6, L0747: 6, L0752: 6, L0740: 5, L0755: 5, L0759: 5, H0550: 4, L0769: 4, L0438: 4, H0545: 3, H0051: 3, H0135: 3, L0662: 3, L0809: 3, L0666: 3, H0624: 2, H0685: 2, L0005: 2, H0645: 2, H0013: 2, S0346: 2, H0318: 2,		
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H0597: 2, H0050: 2, H0014: 2, H0553: 2, H0040: 2, H0616: 2, H0551: 2, S0344: 2, S0002: 2, L0761: 2, L0771: 2, L0650: 2, L0806: 2, L0659: 2, H0547: 2, H0539: 2, H0696: 2, L0439: 2, L0749: 2, L0756: 2, L0605: 2, L0591: 2, L0581: 2, L0362: 2, H0171: 1, H0556: 1, S0134: 1, S0218: 1, H0583: 1, L0427: 1, S0358: 1, H0580: 1, H0208: 1, H0619: 1, S0278: 1, H0369: 1, H0549: 1, H0431: 1, H0370: 1, H0333: 1, H0427: 1, H0599: 1, T0082: 1, H0421: 1, H0052: 1, H0457: 1, L0157: 1, H0024: 1, H0687: 1, H0290: 1, H0252: 1, T0006: 1, H0644: 1, L0143: 1, H0111: 1, H0165: 1, H0674: 1, H0591: 1, H0634: 1, H0488: 1,
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HNORE03	1006250	359	1 - 669	2534	<p>Lys-54 to Asp-62, Pro-102 to Gly-109, Gln-121 to Thr-134, Lys-159 to Leu-165, Thr-190 to Asn-196.</p>	<p>H0623: 1, H0059: 1, S0112: 1, T0042: 1, H0561: 1, H0646: 1, H0652: 1, H0538: 1, L0763: 1, L0765: 1, L0648: 1, L0768: 1, L0803: 1, L0775: 1, L0375: 1, L0783: 1, L0530: 1, L0367: 1, L0663: 1, H0144: 1, H0519: 1, H0682: 1, H0659: 1, H0658: 1, H0648: 1, H0651: 1, S0378: 1, H0521: 1, L0611: 1, S0028: 1, L0750: 1, L0779: 1, L0777: 1, L0757: 1, L0758: 1, S0196: 1, H0542: 1, H0423: 1, H0422: 1, H0677: 1 and H0506: 1.</p>		
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HPCTS21	1006317	360	117 - 1754	2535	Arg-8 to Ser-35, Leu-40 to Cys-77.	S0330: 1, L0755: 1, L0759: 1, H0707: 1, L0608: 1, H0543: 1 and H0423: 1. L0766: 6, L0754: 6, L0779: 4, H0486: 3, L0665: 3, S0440: 2, L0756: 2, L0731: 2, L0758: 2, H0624: 1, H0717: 1, H0738: 1, H0125: 1, S0376: 1, S0360: 1, H0581: 1, L0157: 1, L0471: 1, S0250: 1, S0003: 1, H0316: 1, S0422: 1, L0769: 1, L0387: 1, L0803: 1, L0805: 1, L0776: 1, L0606: 1, L0659: 1, L0518: 1, L0793: 1, L0664: 1, H0689: 1, H0659: 1, H0658: 1, H0672: 1, S0328: 1, S0136: 1, H0134: 1, H0436: 1, H0732: 1, L0751: 1, L0777: 1, L0755: 1, L0759: 1, S0436: 1, H0422: 1 and S0412: 1.		
HFATL31	1006399	361	2 - 508	2536	Leu-17 to Arg-37, Pro-50 to Ser-77.	H0052: 2, H0620: 2, H0729: 1, S0300: 1,		

					Arg-85 to Gln-91, Glu-148 to Glu-153.	H0462: 1, H0550: 1, H0441: 1, H0333: 1, H0618: 1, S0010: 1, H0309: 1, H0032: 1, H0673: 1, H0124: 1, S0366: 1, S0036: 1, L0637: 1, S014: 1, L0742: 1, L0743: 1, L0740: 1, L0750: 1, L0753: 1 and L0758: 1.			
HE2JE77	1006445	362	2 - 331	2537	Gly-67 to Leu-76, Cys-83 to Arg-89, Glu-96 to Asn-102.	L0521: 2, H0624: 1, H0539: 1 and H0555: 1.			
HCBNX87	1006470	363	948 - 529	2538	Gly-16 to Asn-31, Ala-36 to Ser-41, Glu-93 to Pro-100, Lys-135 to Gln-140.	H0693: 44, L0604: 5, S0366: 4, L0805: 4, H0637: 3, L0766: 3, H0672: 3, H0549: 2, H0271: 2, L0777: 2, H0661: 1, H0580: 1, H0173: 1, H0620: 1, H0428: 1, S0364: 1, L0641: 1, L0644: 1, L0655: 1, L0809: 1, L0791: 1, L0666: 1, L0663: 1, T0068: 1, H0576: 1, L0780: 1, L0731: 1, L0584: 1 and H0543: 1.			
HNTDJ68	1006483	364	3 - 653	2539	Val-9 to Ser-15, Phe-34 to Tyr-41,	AR052: 6, AR053: 5, AR055: 3, AR089: 3,			

						Glu-59 to Glu-75, Leu-94 to Asn-99, Asp-142 to Cys-152, Lys-166 to Leu-172, Lys-188 to Asn-194, Pro-212 to Ala-217.	AR033: 3, AR096: 3, AR061: 2, AR039: 2, AR060: 2, AR104: 2 H0615: 3, H0393: 1, H0441: 1, T0109: 1, H0318: 1, H0570: 1, H0566: 1, H0551: 1, H0625: 1, L0761: 1, L0766: 1, L0803: 1, L0784: 1, H0144: 1, H0539: 1, H0696: 1, L0744: 1, L0740: 1 and L0777: 1.		
HTRAA05	1006512	365	19 - 327	2540	Pro-11 to Phe-16, Ala-59 to Asp-66.		T0002: 1, H0164: 1 and L0761: 1.		
HMTAL96	1006635	366	1767 - 1321	2541	Ala-9 to Leu-20, Arg-70 to Thr-75, Pro-129 to Gly-139.		L0747: 6, L0754: 4, L0752: 4, S0280: 3, H0615: 3, L0766: 3, L0803: 3, L0805: 3, L0809: 3, L0740: 3, L0750: 3, L0731: 3, H0050: 2, L0471: 2, H0628: 2, H0032: 2, S0426: 2, H0648: 2, S0027: 2, L0779: 2, L0757: 2, L0759: 2, L0485: 2, H0656: 1, S0029: 1, S0356: 1, S0358: 1, S0376: 1, S0408: 1, H0580: 1,		

HDTJP21	1006858	367	55 - 246	2542	Ile-3 to Ile-10, Pro-40 to Val-64	S0046: 1, H0645: 1, S0222: 1, H0592: 1, H0486: 1, H0427: 1, H0042: 1, H0036: 1, H0004: 1, H0581: 1, H0434: 1, H0052: 1, T0110: 1, H0545: 1, S0051: 1, H0375: 1, H0328: 1, L0483: 1, H0030: 1, H0644: 1, H0090: 1, H0551: 1, H0100: 1, H0633: 1, S0344: 1, S0002: 1, L0761: 1, L0764: 1, L0521: 1, L0363: 1, L0774: 1, L0775: 1, L0558: 1, L0659: 1, L0782: 1, L0787: 1, H0691: 1, H0658: 1, H0651: 1, S0330: 1, H0539: 1, S0380: 1, H0518: 1, S0013: 1, H0555: 1, S3014: 1, L0748: 1, L0439: 1, L0749: 1, L0758: 1, S0031: 1, L0599: 1, L0362: 1, S0196: 1 and H0422: 1.	H0615: 2 and H0486: 1	
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HISEQ81	1006943	368	298 - 2	2543	Glu-8 to Tyr-18, Asn-29 to Lys-35, Lys-62 to Ile-67, His-88 to Pro-99.	H0539: 2		
HODFH02	1006953	369	334 - 393	2544		H0615: 3		
HOCPP18	1007230	370	290 - 571	2545	Pro-11 to Phe-19, Phe-41 to Ser-54.	L0748: 3, L0471: 2, L0766: 2, L0752: 2, S0358: 1, H0357: 1, H0486: 1, H0270: 1, H0575: 1, S0182: 1, S0049: 1, T0067: 1, H0412: 1, H0560: 1, S0144: 1, S0326: 1, H0538: 1, S0422: 1, S0426: 1, L0764: 1, H0660: 1, H0521: 1, S0432: 1, L0740: 1, L0751: 1, L0754: 1, L0745: 1, L0747: 1, L0777: 1, L0731: 1, H0445: 1, L0608: 1 and H0667: 1.	14q21	182600, 232700, 602086, 602616
HODFP91	1007941	371	3 - 1016	2546	Glu-10 to Ser-19, His-41 to Lys-50, Glu-80 to Leu-86, Ser-142 to Leu-147, Lys-153 to Lys-161, Tyr-167 to Leu-175, Ser-177 to Asn-188, Gln-199 to Arg-228,	L0777: 4, L0517: 3, L0740: 3, L0599: 3, S0354: 2, H0615: 2, L0521: 2, L0663: 2, L0779: 2, L0591: 2, T0002: 1, H0013: 1, H0427: 1, H0553: 1, H0038: 1, L0520: 1,		

					Gln-257 to Glu-262, Asp-274 to Ser-279.	L0769: 1, L0638: 1, L0518: 1, L0809: 1, H0547: 1, L0439: 1, L0747: 1 and H0444: 1.			
H6EDU06	1007976	372	18 - 449	2547	Pro-6 to Leu-11, Glu-90 to Asn-95, Val-102 to Val-107, Ala-120 to Glu-126, Ala-132 to Thr-144.	H0686: 1, H0559: 1 and S0028: 1.			
HPCRD26	1008013	373	81 - 1334	2548	Gly-8 to Asp-16, Gly-71 to Pro-77, Met-98 to Tyr-105, Lys-129 to Arg-146, Gln-177 to Val-186, Gln-192 to Trp-216, Pro-223 to Asp-237, Ala-251 to Ser-258, Arg-287 to Arg-292, Met-323 to Gly-331.	AR053: 1, AR104: 1, AR061: 1, AR033: 1, AR060: 0, AR096: 0, AR039: 0, AR089: 0, AR052: 0, AR055: 0			
HSIEH63	1008027	374	3 - 554	2549	His-1 to Pro-7, Lys-43 to Asp-59, Thr-122 to Tyr-133, Gly-152 to Thr-160.	AR039: 9, AR089: 4, AR060: 4, AR055: 4, AR061: 3, AR033: 3, AR104: 3, AR053: 3, AR096: 1 S0354: 2, S0360: 1, H0036: 1, H0596: 1 and S0374: 1.			
HPASD51	1008071	375	3 - 752	2550	Glu-26 to Gly-31, Gly-33 to Trp-40, Ala-169 to Glu-175.	AR052: 51, AR061: 46, AR033: 35, AR053: 28, AR104: 26, AR055:			

					Gly-199 to Gly-204.	25, AR096: 25, AR060: 24, AR089: 23, AR039: 21 S0380: 5, L0748: 4, H0648: 3, S0378: 3, L0752: 3, L0766: 2, L0803: 2, L0665: 2, L0750: 2, H0661: 1, H0461: 1, H0270: 1, H0039: 1, H0622: 1, L0761: 1, L0657: 1, L0532: 1, L0666: 1, H0689: 1, S0330: 1, L0749: 1 and L0777: 1.			
HCOQH27	1008154	376	95 - 1315	2551	Gly-28 to Pro-34, Lys-39 to Glu-47, Ala-63 to Cys-68, Asn-101 to Gly-111, Leu-144 to His-161, Asp-234 to Trp-245, Phe-396 to Ser-407.	L0803: 5, L0439: 5, L0750: 5, L0774: 4, H0657: 3, H0046: 3, H0687: 3, H0031: 3, L0773: 3, L0794: 3, L0776: 3, L0655: 3, L0657: 3, L0790: 3, L0438: 3, L0747: 3, L0731: 3, H0656: 2, T0042: 2, L0761: 2, L0764: 2, L0654: 2, S0152: 2, L0751: 2, L0749: 2, L0777: 2, L0759: 2, L0592: 2, H0543: 2, S6024: 1, H0341: 1, S0212: 1,	12		

S0420: 1, S0358: 1, S0360: 1, S0410: 1, H0637: 1, H0208: 1, S0045: 1, S0046: 1, H0393: 1, S0278: 1, H0369: 1, H0441: 1, H0357: 1, H0613: 1, T0039: 1, H0013: 1, H0427: 1, H0575: 1, S0010: 1, S0346: 1, H0209: 1, H0123: 1, H0024: 1, S0051: 1, T0010: 1, H0061: 1, H0266: 1, H0553: 1, H0598: 1, S0036: 1, H0038: 1, H0551: 1, H0264: 1, H0059: 1, L0351: 1, T0041: 1, L0475: 1, L0762: 1, L0631: 1, L0638: 1, L0643: 1, L0766: 1, L0804: 1, L0775: 1, L0375: 1, L0805: 1, L0791: 1, L0663: 1, S0126: 1, H0670: 1, H0660: 1, H0672: 1, H0521: 1, H0522: 1, H0696: 1, H0704: 1, S0044: 1, L0756: 1, L0757: 1, L0758: 1,					
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HNTBU30	1008177	377	2 - 2737	2552	Leu-40 to Val-46, Gly-83 to Gln-89, Lys-123 to Gly-129.	L0588: 1, L0591: 1, L0485: 1, H0542: 1, H0423: 1, H0422: 1 and H0293: 1. L0770: 7, L0777: 7, S0406: 5, L0439: 5, L0758: 4, H0659: 3, H0717: 2, H0494: 2, L0598: 2, L0764: 2, L0655: 2, H0547: 2, H0521: 2, H0478: 2, L0748: 2, L0731: 2, L0595: 2, L0411: 1, H0657: 1, H0656: 1, H0663: 1, S0358: 1, H0329: 1, H0645: 1, H0639: 1, H0415: 1, H0455: 1, H0156: 1, L0021: 1, H0052: 1, T0110: 1, L0471: 1, H0687: 1, S0250: 1, H0428: 1, H0553: 1, H0166: 1, H0598: 1, H0040: 1, H0551: 1, S0386: 1, H0560: 1, H0509: 1, H0538: 1, UNKWN: 1, L0763: 1, L0638: 1, L0646: 1, L0662: 1, L0364: 1, L0803: 1, L0659: 1,		
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HCOPZ14	1008179	378	763 - 1083	2553				L0636: 1, L0783: 1, L0666: 1, H0520: 1, H0519: 1, S0122: 1, H0435: 1, H0518: 1, H0694: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0779: 1, L0752: 1, L0755: 1, S0031: 1, L0485: 1, H0422: 1 and H0506: 1.	1q32-q41	114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 276901, 600105, 600332, 600759, 601494,
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HODEC78	1008299	379	1 - 1209	2554	Arg-1 to Cys-8, Ala-11 to Thr-22, Pro-87 to Leu-99, Lys-120 to Glu-144, Leu-179 to Lys-200, Glu-212 to Lys-221, Tyr-280 to Arg-287, Lys-292 to Gly-299, Val-314 to Ser-320, Pro-322 to Pro-340.	H0615: 2, L0766: 2, L0755: 2, L0471: 1, H0356: 1, T0023: 1, L0761: 1, L0794: 1, L0787: 1, L0789: 1, H0519: 1, L0745: 1, L0746: 1, L0591: 1 and L0593: 1.	12p11.2- p11.1	601744, 601975 112410, 135700, 168470, 200990
HODEF29	1008304	380	26 - 169	2555	His-8 to Gly-18.	H0615: 1		
HODEB71	1008307	381	369 - 671	2556	Lys-54 to Arg-59, Arg-66 to Arg-71.	L0805: 2, S0134: 1, H0486: 1, H0251: 1, H0235: 1, S0022: 1, H0615: 1, L0667: 1, L0776: 1, L0789: 1, L0758: 1 and H0423: 1.		
HODEF78	1008314	382	3 - 218	2557	Thr-4 to Ser-11, Pro-25 to Ala-31, Thr-38 to His-44.	H0615: 1		
HODEL83	1008324	383	3 - 416	2558	Ser-2 to Thr-13, Ile-16 to Ser-26, Pro-28 to Gln-36, Gln-41 to Pro-47, Pro-106 to Asp-111, Trp-127 to Thr-132.	H0615: 3		
HHPHSH76	1008325	384	244 - 1206	2559	Ser-2 to Ser-7, Leu-51 to Arg-56,	L0776: 9, L0769: 4, L0789: 4, L0773: 3,		

						Lys-142 to Ser-149, His-178 to Ser-187, Tyr-261 to Gly-267, Arg-272 to Asp-292.	L0774: 3, L0750: 3, L0761: 2, L0771: 2, L0803: 2, L0807: 2, L0565: 2, L0745: 2, S0376: 1, H0549: 1, H0453: 1, H0587: 1, S0010: 1, S0324: 1, H0201: 1, H0687: 1, H0428: 1, H0538: 1, L0763: 1, L0770: 1, L0800: 1, L0643: 1, L0764: 1, L0794: 1, L0766: 1, L0775: 1, L0806: 1, S0328: 1, H0521: 1, L0780: 1, L0758: 1, L0759: 1, L0605: 1 and S0462: 1.			
HGBE52	1008326	385	782 - 663	2560		Gly-1 to Glu-26, Val-28 to Leu-35.	H0181: 2, L0599: 2, H0014: 1, L0365: 1, L0665: 1, S0052: 1, S0216: 1, H0684: 1, S0152: 1, S0188: 1, H0345: 1 and L0366: 1.			
HBQAB30	1008327	386	3 - 737	2561		Asn-40 to Arg-68, Ser-86 to Ala-92, Ile-129 to Lys-145, Glu-162 to Ala-175, Glu-181 to Thr-204, Ser-206 to Lys-214, Leu-222 to Thr-231.	H0551: 2, S0354: 1, H0229: 1, S0049: 1, H0135: 1, H0529: 1 and S0028: 1.			

HLHCB31	1008332	387	1 - 558	2562	Asn-7 to Lys-19.	L0750: 4, L0777: 3, L0758: 3, S0354: 2, S0360: 2, H0039: 2, H0622: 2, H0617: 2, L0666: 2, H0520: 2, L0756: 2, L0759: 2, S0358: 1, H0549: 1, H0253: 1, H0009: 1, L0471: 1, H0620: 1, H0024: 1, H0083: 1, H0688: 1, L0142: 1, H0135: 1, H0038: 1, H0100: 1, H0646: 1, L0763: 1, L0761: 1, L0764: 1, L0662: 1, L0767: 1, L0794: 1, L0653: 1, L0659: 1, L0809: 1, L0665: 1, H0144: 1, H0547: 1, H0672: 1, L0741: 1, L0743: 1, L0744: 1, L0753: 1 and S0276: 1.	16q13- 16q21	114835, 118470, 132700, 172490, 209900, 600968
HPFDV51	1008335	388	22 - 216	2563	Thr-5 to His-10, Pro-28 to Thr-40, Lys-46 to His-54.	H0670: 4, S0007: 2, H0014: 2, H0616: 2, L0005: 1, H0574: 1, H0632: 1, H0156: 1, H0169: 1, L0769: 1, L0805: 1, L0647: 1, H0648: 1, L0779: 1 and L0758: 1.		

HTEDY04	1008336	389	2 - 832	2564	Arg-2 to Gly-9, Arg-38 to Lys-46, Ser-53 to Ser-73, Asp-79 to Ala-84, Leu-129 to Glu-136, Glu-202 to Arg-210, Glu-216 to Ala-231, Glu-234 to Glu-254, Lys-259 to Leu-265.	L0803: 8, L0758: 8, L0809: 6, L0748: 6, H0038: 5, L0439: 5, H0616: 4, H0670: 4, L0756: 4, L0731: 4, L0794: 3, L0750: 3, L0770: 2, L0805: 2, L0776: 2, L0602: 2, L0779: 2, S0276: 2, S0282: 1, S0410: 1, H0369: 1, H0549: 1, H0618: 1, H0252: 1, H0615: 1, H0424: 1, H0213: 1, H0032: 1, H0212: 1, H0068: 1, T0067: 1, S0438: 1, L0769: 1, L0638: 1, L0804: 1, L0775: 1, L0806: 1, L0527: 1, L0782: 1, L0788: 1, L0789: 1, L0666: 1, L0664: 1, L0665: 1, H0658: 1, H0672: 1, S3012: 1, L0751: 1, L0745: 1, L0777: 1, L0780: 1, L0759: 1 and L0581: 1.	1p35.1	118210, 120550, 120570, 120575, 121800, 130500, 133200, 171760, 171760, 185470, 230350, 255800, 602771	
HODEG13	1008337	390	2 - 166	2565	Gln-2 to His-10, Lys-21 to Glu-33.	H0615: 3			
HHPFK16	1008345	391	109 - 435	2566		H0663: 1, H0125: 1,			

HARAL81	1008349	392	220 - 20	2567	Ser-24 to Ala-30, Arg-55 to Ser-62.	S0418: 1, S0356: 1, H0051: 1, H0648: 1 and H0543: 1. L0752: 6, L0663: 5, L0646: 3, L0754: 3, L0747: 3, H0031: 2, L0794: 2, H0659: 2, H0658: 2, L0748: 2, H0556: 1, H0657: 1, L0005: 1, S0354: 1, S0358: 1, S0410: 1, H0637: 1, H0441: 1, H0455: 1, T0082: 1, H0615: 1, S0440: 1, H0633: 1, S0344: 1, S0426: 1, H0529: 1, L0770: 1, L0769: 1, L0637: 1, L0374: 1, L0771: 1, L0648: 1, L0662: 1, L0766: 1, L0650: 1, L0774: 1, L0775: 1, L0805: 1, L0776: 1, L0655: 1, L0542: 1, L0782: 1, L0809: 1, L0666: 1, L0664: 1, L0665: 1, L0352: 1, H0648: 1, H0521: 1, H0696: 1, S0406: 1, L0740: 1, L0749: 1, L0731: 1 and		
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HFTAU42	1008350	393	987 - 1100	2568			H0444: 1. S0360: 2, H0123: 2, L0649: 2, L0803: 2, L0666: 2, L0740: 2, L0747: 2, L0750: 2, L0755: 2, H0624: 1, S0418: 1, H0393: 1, H0553: 1, H0124: 1, H0090: 1, S0440: 1, H0646: 1, S0142: 1, L0662: 1, L0776: 1, L0659: 1, L0665: 1, L0438: 1, H0547: 1, H0519: 1, H0659: 1, H0658: 1, H0648: 1, L0777: 1, L0752: 1, H0445: 1, L0599: 1, S0242: 1 and H0542: 1.		
HETDA81	1008358	394	3 - 377	2569	Thr-5 to Ser-12, Thr-74 to Pro-80.	H0046: 2 and H0648: 1.			
HODEI92	1008359	395	1 - 495	2570	His-31 to Asp-45, Glu-56 to Ser-64, Pro-118 to Asp-131.	L0747: 4, L0751: 3, H0615: 2, L0794: 2, L0665: 2, H0659: 2, L0777: 2, L0596: 2, H0341: 1, H0333: 1, H0510: 1, H0328: 1, H0039: 1, L0764: 1, L0657: 1, H0658: 1, S0328: 1 and L0758: 1.			
HODEB58	1008372	396	3 - 455	2571	Thr-25 to Ser-36.	H0360: 14, L0809: 11,			

									L0747: 9, L0749: 9, L0777: 9, L0803: 8, L0731: 8, L0774: 7, L0794: 6, S0408: 5, L0783: 5, L0775: 4, L0438: 4, H0648: 4, L0756: 4, L0623: 3, H0575: 3, L0471: 3, H0373: 3, H0615: 3, L0520: 3, L0768: 3, S0126: 3, S0328: 3, S0406: 3, L0779: 3, L0758: 3, S0116: 2, S0444: 2, S0360: 2, H0393: 2, S0222: 2, H0156: 2, T0082: 2, H0052: 2, H0014: 2, H0494: 2, S0440: 2, L0763: 2, L0769: 2, L0764: 2, L0517: 2, H0684: 2, H0670: 2, H0672: 2, H0539: 2, L0740: 2, L0753: 2, L0757: 2, L0759: 2, S0031: 2, L0588: 2, L0581: 2, L0595: 2, S0424: 2, H0171: 1, T0002: 1, H0218: 1, H0685: 1, S0342: 1, S0402: 1, T0049: 1,						
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			H0657: 1, S0001: 1, S0282: 1, L0481: 1, H0638: 1, S0356: 1, S0442: 1, S0358: 1, S0410: 1, H0580: 1, H0722: 1, S0045: 1, S0046: 1, S0132: 1, H0549: 1, H0592: 1, H0574: 1, T0060: 1, H0013: 1, S0474: 1, H0581: 1, H0230: 1, H0251: 1, H0309: 1, H0596: 1, H0050: 1, H0242: 1, H0320: 1, L0163: 1, S0051: 1, T0010: 1, S6028: 1, H0179: 1, S0003: 1, H0039: 1, H0644: 1, L0142: 1, H0181: 1, H0617: 1, H0674: 1, S0036: 1, H0591: 1, H0616: 1, H0412: 1, H0202: 1, H0560: 1, S0438: 1, S0144: 1, S0422: 1, S0426: 1, L0772: 1, L0800: 1, L0773: 1, L0521: 1, L0662: 1, L0767: 1, L0766: 1, L5574: 1, L0522: 1, L0804: 1,					
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							L0653: 1, L0776: 1, L0659: 1, L0526: 1, L0782: 1, L5622: 1, L0788: 1, H0689: 1, H0690: 1, H0682: 1, H0658: 1, S0378: 1, H0696: 1, H0134: 1, S0404: 1, H0727: 1, S0028: 1, L0742: 1, L0752: 1, S0434: 1, L0589: 1, S0192: 1, H0423: 1, H0422: 1 and S0458: 1.			
HODEG86	1008379	397	411 - 548	2572			H0615: 3			
HODFA57	1008396	398	138 - 221	2573		Lys-1 to Lys-6, Leu-10 to Asp-17, Pro-19 to Arg-28.	H0615: 4			
HODFB31	1008401	399	1 - 276	2574		Pro-35 to Lys-40, Glu-72 to Gly-77, Pro-85 to Val-90.	H0615: 2, S0278: 1, S0002: 1, H0555: 1 and S0026: 1.			
HTEMP79	1008406	400	317 - 658	2575		Leu-14 to Ser-19.	L0758: 6, L0779: 4, H0038: 3, H0616: 2, L0593: 2, H0644: 1, L0794: 1 and L0594: 1.			
HODEI59	1008423	401	161 - 1291	2576		His-6 to Ser-11, Ser-122 to Asn-128, Leu-216 to Asp-221, Ser-323 to His-328.	H0031: 12, H0521: 11, H0542: 11, L0745: 9, H0266: 7, H0547: 7, H0551: 6, H0013: 5, S0152: 5, T0049: 4, H0169: 4, H0494: 4,	20q12-q13.1, 256540, 600281, 600281		

L0748: 4, L0591: 4, H0661: 3, H0251: 3, H0046: 3, H0644: 3, H0591: 3, S0002: 3, H0520: 3, S0126: 3, S0028: 3, L0439: 3, L0754: 3, L0757: 3, L0596: 3, H0423: 3, H0171: 2, S0134: 2, S0354: 2, S0358: 2, H0580: 2, S0046: 2, H0587: 2, H0497: 2, T0039: 2, H0599: 2, H0050: 2, L0471: 2, T0010: 2, H0615: 2, H0039: 2, H0090: 2, H0038: 2, H0040: 2, H0488: 2, T0042: 2, S0150: 2, H0529: 2, L0649: 2, L0659: 2, L0438: 2, H0519: 2, H0660: 2, H0555: 2, S3014: 2, S0027: 2, L0777: 2, L0593: 2, L0601: 2, H0653: 2, H0543: 2, H0170: 1, H0556: 1, H0341: 1, S0001: 1, H0664: 1, H0662: 1, H0638: 1, S0418: 1, S0420: 1,									
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HODEF94	1008429	402	2 - 94	2577	Pro-19 to Ser-29.			H0615: 2, H0090: 1, S0002: 1 and H0478: 1.			
HPFCZ53	1008445	403	236 - 769	2578	Lys-1 to Lys-23.			L0754: 40, L0740: 8, H0295: 2, H0663: 2, H0169: 2, H0068: 2, L0770: 2, L0662: 2, L0789: 2, L0748: 2, L0751: 2, L0755: 2, L0589: 2, S0420: 1, L0005: 1, H0586: 1, H0156: 1, H0032: 1, H0100: 1, H0494: 1, L0803: 1, L0806: 1, L0809: 1, H0660: 1, H0672: 1, S0152: 1, L0744: 1, L0779: 1, L0777: 1, L0780: 1, L0591: 1, L0593: 1 and L0601: 1.	6p24		134570
HWACN71	1008764	404	96 - 1268	2579	Val-7 to Gly-14, Lys-46 to Ala-52, Leu-82 to Phe-89, Lys-94 to Ser-99, Pro-101 to Arg-108,			AR096: 7, AR053: 5, AR089: 4, AR039: 3, AR060: 2, AR055: 2, AR052: 2, AR033: 2, AR061: 2, AR104: 2			---

						Ala-123 to Gly-129, Lys-154 to Gly-164, Arg-274 to Glu-287, Asp-294 to Thr-309, Gln-324 to Ala-334, Pro-343 to Asn-359, Lys-368 to Glu-385.			H0457: 2, H0494: 2, H0740: 1, H0581: 1, H0083: 1, L0770: 1, L0769: 1, L0764: 1, L0791: 1 and H0727: 1.			
HOFMU69	1009017	405	342 - 1151	2580		Ser-70 to Trp-88, Lys-154 to Asp-161, Tyr-265 to Lys-270.			AR039: 17, AR052: 11, AR104: 7, AR033: 7, AR096: 7, AR053: 6, AR089: 6, AR060: 3, AR061: 3, AR055: 3 H0415: 2			
HSKNP59	1009095	406	417 - 554	2581		Pro-10 to Pro-16.			AR039: 15, AR089: 10, AR053: 10, AR096: 9, AR055: 8, AR060: 7, AR033: 6, AR061: 5, AR104: 4 L0510: 3, L0504: 1, L0502: 1, L0499: 1, L0514: 1, L0512: 1 and S3012: 1.			
HETBR71	1009343	407	155 - 658	2582		Lys-5 to Phe-58.			L0731: 10, L0759: 6, L0782: 4, L0774: 3, H0046: 2, H0620: 2, L0598: 2, L0769: 2, L0805: 2, L0663: 2, S0380: 2, L0754: 2, L0756: 2, H0170: 1,	Xq22.1	301201, 301835, 311850	

HE2ES17	1009349	408	3 - 914	2583	Glu-1 to Glu-13.	L0663: 3, L0740: 3, L0752: 3, L0758: 3, L0759: 3, L0664: 2, L0665: 2, L0439: 2, L0756: 2, H0624: 1, H0170: 1, H0685: 1, S0003: 1, H0615: 1, H0644: 1, H0616: 1,		
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							L0598: 1, L0649: 1, L0666: 1, H0660: 1, H0648: 1, H0672: 1, H0696: 1, H0555: 1, L0779: 1, L0755: 1, L0592: 1 and S0192: 1.			
HELHM06	1009362	409	14 - 349	2584	Asp-57 to Ala-62, Gly-98 to Pro-112.		S0045: 1			
HE2AG50	1009365	410	43 - 132	2585	Gly-1 to Ser-6, Pro-20 to Ile-30.		AR089: 1, AR033: 1, AR060: 0, AR096: 0, AR061: 0, AR055: 0, AR039: 0 H0170: 1, H0574: 1, H0052: 1, H0048: 1 and L0766: 1.			
HE2ES61	1009388	411	555 - 427	2586			H0305: 2, L0663: 2, H0170: 1, S0003: 1, L0803: 1 and H0651: 1.			
HE2SO43	1009398	412	1 - 408	2587	Pro-65 to Lys-70, His-112 to Gly-131.		H0624: 1			
HLHCI07	1009403	413	91 - 2	2588	Arg-5 to Gly-11.		H0208: 1, H0123: 1 and H0024: 1.	13q		
HTTBR65	1009414	414	1 - 357	2589	Gly-3 to Thr-9, Arg-30 to Gly-39.		H0305: 1 and H0040: 1.	17q21	109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200,	

								148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844
HPFCV71	1009453	415	434 - 586	2590			H0328: 1, H0615: 1, H0169: 1, L0807: 1 and L0754: 1.	
HCABR46	1009479	416	169 - 423	2591	Ala-9 to Glu-19, Glu-40 to Asn-46, Asp-55 to Ser-66.	H0125: 1	19p13.2	108725, 120700, 133171, 143890, 147670,

HCRCB80	1009482	417	78 - 479	2592	Gln-34 to Ala-45, Glu-47 to Leu-52, Lys-113 to Gln-121.	H0170: 1, H0327: 1, H0038: 1, L0758: 1 and S0276: 1.	22q13.2- q13.31	147670, 147670, 151440, 164953, 231670, 600276, 600957, 601843
HPMLW78	1009833	418	1 - 648	2593	Asn-12 to Tyr-19, Glu-33 to Glu-38, Arg-53 to Ser-62.	L0769: 4, L0751: 4, L0471: 2, H0024: 2, L0768: 2, L0748: 2, L0731: 2, L0595: 2, H0685: 1, S0001: 1, H0052: 1, H0050: 1, H0012: 1, H0644: 1, H0617: 1, H0040: 1, H0100: 1, L0637: 1, L0662: 1, L0809: 1, L0665: 1, H0547: 1, H0519: 1, L0780: 1 and L0591: 1.	1q23	104770, 107300, 107670, 131210, 134638, 136132, 145001, 146740, 146740, 146740, 146790, 173610, 176310, 186780, 191030, 227400, 227400, 601412,

								601652, 602491
HODJK75	1009842	419	3 - 428	2594	Ala-26 to Ile-34.	H0615: 2		
HODJX27	1009854	420	1 - 123	2595	Ser-27 to Gly-32.	H0615: 1		
HODJV85	1009857	421	366 - 166	2596	Asp-1 to Gly-9, Glu-17 to Lys-23.	H0615: 1		
HOOJO38	1009918	422	718 - 116	2597	Ala-76 to Lys-87, Glu-110 to Gln-115, Ser-123 to Lys-131, Lys-168 to Ala-174, Pro-178 to Ala-193, Ala-196 to Ala-201. L0493: 55, L0504: 46, L0512: 42, L0510: 41, L0507: 39, L0509: 35, L0511: 30, L0502: 29, L0500: 25, L0499: 20, L0503: 19, L0498: 13, L0514: 13, H0648: 13, L0506: 10, H0341: 9, H0046: 7, L0505: 7, L0497: 7, H0670: 7, L0520: 6, H0659: 6, S0380: 6, L0508: 5, S0027: 5, S0114: 4, H0657: 4, S0045: 4, H0100: 4, L0515: 4, L0526: 4, L0664: 4, S0126: 4, H0658: 4, S0378: 4, S0028: 4, L0588: 4, L0362: 4, S0026: 4, H0333: 3, H0318: 3, H0090: 3, H0413: 3, S0142: 3, L0646: 3, S0374: 3, H0689: 3, L0750: 3,			

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				H0208: 1, H0441: 1, H0392: 1, H0455: 1, H0438: 1, H0282: 1, H0600: 1, H0362: 1, H0559: 1, L0623: 1, H0485: 1, H0486: 1, T0039: 1, T0109: 1, H0069: 1, H0635: 1, H0575: 1, H0274: 1, S0346: 1, T0048: 1, H0581: 1, H0085: 1, H0263: 1, H0597: 1, H0231: 1, H0327: 1, H0172: 1, H0024: 1, S0051: 1, H0510: 1, H0594: 1, H0266: 1, H0271: 1, H0687: 1, S0214: 1, H0252: 1, H0688: 1, H0428: 1, T0006: 1, H0628: 1, H0606: 1, L0055: 1, H0383: 1, H0165: 1, H0166: 1, S0366: 1, H0591: 1, H0616: 1, H0063: 1, H0412: 1, H0059: 1, H0560: 1, H0359: 1, H0646: 1, L0598: 1, L0369: 1, L0764: 1, L0662: 1, L0388: 1, L0522: 1,				
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						L0775: 1, L0651: 1, L0776: 1, L0659: 1, L0517: 1, L0540: 1, L0518: 1, L0783: 1, L0384: 1, L0541: 1, L0543: 1, L0367: 1, L0368: 1, L0532: 1, L0663: 1, L0665: 1, S0428: 1, H0691: 1, H0684: 1, H0660: 1, H0666: 1, H0672: 1, H0651: 1, H0522: 1, H0187: 1, H0576: 1, S0392: 1, S0118: 1, S0206: 1, S0032: 1, L0751: 1, L0747: 1, L0777: 1, L0752: 1, H0444: 1, L0596: 1, L0590: 1, L0604: 1, L0601: 1, H0667: 1 and H0293: 1.				
HAOSI69	1009949	423	1 - 1155	2598		L0757: 22, L0601: 20, L0747: 14, S0152: 13, L0740: 13, H0617: 10, L0748: 10, L0777: 9, H0623: 7, S0126: 6, S0212: 5, S0360: 5, L0771: 5, L0744: 5, L0759: 5, L0596: 5, H0624: 4, H0549: 4,	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015,		

[illegible]

L0766: 2, L0806: 2, L0805: 2, L0664: 2, S0374: 2, H0658: 2, H0539: 2, L0602: 2, S3014: 2, S0028: 2, L0779: 2, L0599: 2, S0194: 2, H0677: 2, H0171: 1, H0685: 1, H0716: 1, H0295: 1, H0294: 1, H0661: 1, H0662: 1, H0450: 1, S0418: 1, S0356: 1, S0354: 1, H0208: 1, S0476: 1, H0645: 1, S6022: 1, S0222: 1, H0298: 1, H0586: 1, H0486: 1, T0039: 1, T0040: 1, H0013: 1, H0196: 1, H0251: 1, H0205: 1, H0204: 1, H0596: 1, H0041: 1, H0123: 1, H0199: 1, H0024: 1, L0163: 1, H0051: 1, S0051: 1, T0010: 1, H0355: 1, S0022: 1, H0252: 1, H0688: 1, L0194: 1, L0483: 1, L0055: 1, H0598: 1, S0036: 1, H0488: 1, H0268: 1,					
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HSDIY67	1010157	424	3 - 692	2599	Ala-7 to Arg-18, Pro-37 to Asp-43, Asn-96 to Arg-103, Lys-115 to Ser-122,	H0059: 1, L0564: 1, S0438: 1, H0633: 1, H0646: 1, S0208: 1, S0210: 1, S0002: 1, H0529: 1, L0369: 1, L5566: 1, L0372: 1, L0642: 1, L0767: 1, L0522: 1, L0774: 1, L0655: 1, L0629: 1, L0656: 1, L0634: 1, L0659: 1, L0542: 1, L0792: 1, L0532: 1, L0666: 1, H0144: 1, H0693: 1, H0593: 1, H0689: 1, H0683: 1, H0660: 1, H0672: 1, S0330: 1, H0696: 1, S0406: 1, S0037: 1, L0743: 1, L0751: 1, L0750: 1, L0756: 1, L0780: 1, L0752: 1, L0755: 1, S0031: 1, H0445: 1, H0343: 1, L0589: 1, H0665: 1, S0192: 1, S0424: 1, S0460: 1 and S0456: 1.	H0658: 4, H0551: 3, L0439: 3, H0686: 2, H0441: 2, H0013: 2, S0152: 2, L0744: 2,
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					Ile-162 to Asn-168, Arg-179 to Asp-189, Asp-206 to Asn- 215, Glu-222 to Val-230.	L0759: 2, S0260: 2, S0360: 1, S0045: 1, L0394: 1, H0009: 1, L0471: 1, H0012: 1, H0620: 1, T0003: 1, H0188: 1, H0428: 1, L0564: 1, L0763: 1, L0770: 1, L0769: 1, L0637: 1, L0646: 1, L0643: 1, L0775: 1, L0805: 1, S0028: 1, L0779: 1, L0592: 1, S0276: 1, S0412: 1 and H0506: 1.			
HSDZM65	1010299	425	2 - 337	2600	Ser-18 to Thr-23, Val-91 to Gln-99.	L0758: 8, L0803: 6, L0740: 6, L0809: 5, L0794: 4, L0756: 4, L0752: 4, S0360: 3, H0551: 3, L0527: 3, L0783: 3, H0689: 3, L0777: 3, L0731: 3, T0049: 2, S0222: 2, S0049: 2, H0163: 2, L0766: 2, L0804: 2, L0659: 2, L0518: 2, L0438: 2, H0547: 2, H0521: 2, H0696: 2, L0779: 2, L0485: 2, H0170: 1, H0171: 1, H0656: 1, H0381: 1,			

	S0212: 1, H0662: 1, H0638: 1, S0376: 1, S0007: 1, S0045: 1, H0455: 1, H0331: 1, H0574: 1, H0013: 1, H0042: 1, H0004: 1, H0421: 1, H0545: 1, H0041: 1, L0471: 1, H0014: 1, S0051: 1, H0083: 1, S0336: 1, H0428: 1, H0553: 1, H0040: 1, L0060: 1, H0487: 1, H0494: 1, H0560: 1, H0561: 1, H0529: 1, L0637: 1, L0667: 1, L0800: 1, L0662: 1, L0375: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0787: 1, L0790: 1, L0666: 1, L0665: 1, S0053: 1, S0374: 1, H0519: 1, H0711: 1, H0659: 1, H0660: 1, H0672: 1, S0380: 1, H0627: 1, L0743: 1, L0755: 1, S0260: 1, L0608: 1, L0601: 1, L0366: 1, H0667: 1, S0242: 1, S0276: 1,	
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HPDOC39	1010400	426	144 - 608	2601	Ser-16 to Val-25, His-105 to Lys-125, Tyr-147 to Ser-155.	S0446: 1 and H0506: 1, S0360: 8, S0358: 7, H0547: 6, H0561: 5, S0126: 5, S0418: 4, L0766: 4, L0748: 4, L0755: 4, L0362: 4, H0686: 3, H0591: 3, H0521: 3, L0740: 3, L0777: 3, L0752: 3, L0731: 3, L0758: 3, H0445: 3, L0595: 3, S0196: 3, H0656: 2, H0663: 2, S0356: 2, S0376: 2, S0444: 2, S0046: 2, S0278: 2, H0331: 2, H0574: 2, H0581: 2, H0052: 2, H0046: 2, H0266: 2, S0003: 2, H0090: 2, H0623: 2, T0042: 2, H0494: 2, L0768: 2, L0803: 2, L0659: 2, L0809: 2, H0144: 2, H0520: 2, H0522: 2, L0439: 2, L0596: 2, L0591: 2, L0601: 2, H0136: 2, S0242: 2, H0423: 2, H0265: 1, H0341: 1, S0001: 1, H0305: 1, H0589: 1,		
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S0420: 1, H0580: 1, S0045: 1, H0619: 1, H0437: 1, S0222: 1, T0039: 1, H0013: 1, H0599: 1, H0253: 1, S0010: 1, H0421: 1, L0738: 1, H0544: 1, H0546: 1, H0041: 1, H0050: 1, H0373: 1, H0083: 1, H0039: 1, H0622: 1, H0031: 1, H0673: 1, S0366: 1, H0135: 1, H0038: 1, H0551: 1, H0412: 1, H0056: 1, T0041: 1, H0334: 1, H0560: 1, H0509: 1, H0633: 1, S0142: 1, S0002: 1, L0770: 1, L0769: 1, L0646: 1, L0374: 1, L0764: 1, L0771: 1, L0381: 1, L0774: 1, L0775: 1, L0666: 1, L0663: 1, L0664: 1, H0701: 1, S0374: 1, H0519: 1, H0689: 1, H0682: 1, H0659: 1, H0658: 1, H0539: 1, S0152: 1, S0332: 1, H0696: 1, H0134: 1,
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HE2PS15	1010525	427	3 - 236	2602	Gly-1 to Asp-8, Asp-62 to Ala-67.	S0406: 1, L0754: 1, L0747: 1, L0750: 1, L0786: 1, L0759: 1, S0260: 1, S0026: 1, H0542: 1, H0543: 1, H0422: 1 and S0452: 1. AR104: 72, AR060: 48, AR089: 29, AR055: 25, AR096: 16, AR061: 10 L0755: 9, L0757: 8, L0519: 6, L0748: 6, L0763: 5, L0774: 5, L0779: 5, H0657: 4, S0222: 4, L0471: 4, L0766: 4, H0670: 4, L0588: 4, S0408: 3, S0438: 3, L0520: 3, L0769: 3, S0374: 3, H0352: 3, H0686: 2, H0341: 2, S0444: 2, S0360: 2, S0046: 2, H0261: 2, H0333: 2, L0622: 2, H0494: 2, S0422: 2, L0767: 2, L0768: 2, L0775: 2, L0809: 2, H0659: 2, S0328: 2, H0696: 2, S0406: 2, L0747: 2, L0750: 2, L0731: 2,	14q32.33	144120, 147020, 147110
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HTTKH22	1010596	428	266 - 1396	2603	Ser-42 to Pro-49, Asp-86 to Gly-92, Lys-97 to Glu-109.		H0670: 4, H0616: 3, L0439: 3, L0758: 3, S0354: 2, H0038: 2, S0116: 1, H0402: 1, H0637: 1, S0474: 1, H0644: 1, H0673: 1, S0366: 1, H0634: 1, L0351: 1, L0638: 1, L0764: 1, L0766: 1, L0803: 1, L0775: 1, L0805: 1, L0792: 1, L0666: 1, H0520: 1, L0780: 1 and H0542: 1.			
HNOJG33	1010698	429	1209 - 490	2604	Arg-1 to Pro-15, Ser-146 to Arg-155, Leu-168 to Asp-174, Lys-181 to Thr-186.		S0040: 3, L0748: 3, S0356: 2, S0358: 2, S0360: 2, H0416: 2, L0752: 2, H0624: 1,	12q13-q14	10777, 123829, 123940, 139350,	

					Phe-226 to Pro-236.	H0265: 1, H0556: 1, S0116: 1, H0255: 1, S0376: 1, S0278: 1, H0575: 1, H0251: 1, L0471: 1, H0373: 1, S0051: 1, H0356: 1, H0687: 1, H0288: 1, H0252: 1, H0135: 1, H0634: 1, H0551: 1, S0210: 1, L0438: 1, H0658: 1, H0666: 1, S0330: 1, S3014: 1, L0744: 1, L0439: 1, L0745: 1, S0260: 1, H0595: 1 and S0196: 1.			139350, 147570, 148040, 148041, 148043, 148070, 181430, 231550, 252940, 264700, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
HPDVK48	1011090	430	1085 - 1630	2605	Lys-14 to Ala-21, Ser-23 to Lys-31, Glu-38 to Gln-47, Arg-72 to Leu-78, Gln-87 to Asn-94, Ser-110 to Lys-118, Glu-172 to Lys-182.	H0650: 2, H0253: 2, L0769: 2, S0116: 1, H0333: 1, H0421: 1, H0083: 1, H0166: 1, H0616: 1, S0208: 1, L0645: 1, L0655: 1, L0666: 1, H0547: 1, H0593: 1, H0689: 1, H0658: 1, S0434: 1 and			

HNORJ10	1011186	431	3 - 1628	2606	<p>Asn-42 to Pro-48, Glu-81 to Lys-86, Val-94 to Thr-99, Lys-105 to Asp-111, Phe-129 to Glu-142, Ser-154 to Gln-160, Glu-173 to Ala-182, Gln-209 to Glu-234, Asp-259 to Asp-272, Ser-303 to Pro-311, Thr-321 to Asn-329, Ala-335 to Glu-349, Thr-371 to Gly-389, Gln-395 to Asn-405, Thr-415 to Asn-423, Asn-431 to Ser-443, Lys-475 to Gln-484, Ser-502 to Gly-507, Ile-522 to Asn-527.</p>	<p>H0352: 1. S0003: 17, H0551: 11, L0483: 9, H0547: 9, S0212: 7, S0152: 7, H0521: 7, H0423: 7, L0766: 6, L0666: 6, S0214: 5, S0126: 5, H0543: 5, S0420: 4, S0360: 4, H0411: 4, H0032: 4, H0598: 4, S0422: 4, L0649: 4, L0665: 4, L0757: 4, H0657: 3, S0376: 3, L0717: 3, H0574: 3, H0486: 3, H0069: 3, H0427: 3, H0581: 3, H0046: 3, H0457: 3, H0271: 3, H0622: 3, H0494: 3, L0667: 3, L0655: 3, L0659: 3, H0519: 3, H0672: 3, H0710: 3, L0754: 3, L0759: 3, L0593: 3, L0601: 3, H0422: 3, H0218: 2, S0040: 2, H0713: 2, H0717: 2, H0650: 2, H0656: 2, S0356: 2, S0132: 2, S0222: 2, H0333: 2, H0009: 2, L0157: 2,</p>	<p>14q21-q24</p>	<p>107970, 115650, 182600, 232700, 602086, 602091, 602616</p>
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HPDRG92	1011209	432	1 - 291	2607	Pro-51 to Phe-57, Ser-87 to Thr-94.		H0658: 3, L0748: 3, H0052: 1 and L0741: 1.			
HOFMQ81	1011303	433	2 - 544	2608	His-1 to Gly-12, Ser-27 to Ser-37, Pro-59 to Ser-68, Glu-94 to Ala-102, Ile-129 to Ser-143, Pro-145 to Pro-150.		AR033: 2, AR089: 2, AR039: 2, AR061: 2, AR055: 1, AR096: 1, AR060: 1, AR104: 1, AR053: 0 H0415: 2			
HOFNF27	1011315	434	3 - 680	2609	Pro-10 to Lys-26, Asn-44 to Tyr-53, Arg-104 to Lys-114, Arg-121 to Ala-134, Gly-155 to Thr-177, Gln-201 to Ser-206.		AR053: 3, AR089: 2, AR096: 1, AR060: 1, AR055: 1, AR104: 1, AR033: 1, AR039: 1, AR061: 0 H0415: 3, H0539: 2, H0355: 1 and H0375: 1.			
HOFND52	1011316	435	126 - 542	2610	Pro-9 to Arg-15, Ala-17 to Thr-26, Pro-39 to Lys-45, Asp-54 to Ala-61, Leu-86 to Gly-91, Phe-99 to Thr-106.		AR096: 1, AR060: 1, AR061: 1, AR033: 1, AR089: 1, AR039: 1, AR053: 0, AR055: 0, AR104: 0 H0415: 2			

HOFNL96	1011321	436	3 - 575	2611	Pro-3 to Ala-17, Asn-56 to Asp-62.	H0415: 1		
HOFNF53	1011332	437	2 - 1183	2612	Pro-26 to Arg-32, Gly-68 to Glu-75, Cys-111 to Asp-116.	AR052: 2, AR053: 1, AR089: 1, AR096: 1, AR055: 1, AR039: 1, AR060: 1, AR033: 1, AR061: 1, AR104: 0 H0415: 2		
HOFMU61	1011360	438	62 - 1249	2613	Ala-39 to Thr-44, Thr-171 to Lys-180.	AR052: 1, AR096: 1, AR089: 1, AR060: 1, AR033: 1, AR053: 0, AR061: 0, AR104: 0, AR039: 0, AR055: 0 H0415: 4		
HOFOF35	1011499	439	1 - 639	2614	Ser-13 to Glu-26, Ser-48 to Val-55, Lys-85 to Thr-91, Asp-115 to Asn-126, Asp-169 to Lys-175.	H0415: 2		
HULFJ37	1011537	440	915 - 364	2615		H0620: 11, H0683: 10, H0483: 7, H0046: 7, H0687: 6, S0360: 4, H0012: 4, H0428: 4, L0471: 3, L0665: 3, H0520: 3, H0670: 3, H0672: 3, L0750: 3, H0624: 2, H0662: 2, H0333: 2, H0013: 2, H0530: 2, H0024: 2,	11p11.2	133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958

H0594: 2, L0381: 2, H0144: 2, H0547: 2, H0435: 2, L0593: 2, L0601: 2, H0352: 2, H0294: 1, H0341: 1, H0661: 1, H0664: 1, H0240: 1, S0354: 1, S0358: 1, S0376: 1, H0675: 1, S0007: 1, S0046: 1, H0369: 1, H0370: 1, H0587: 1, H0497: 1, H0642: 1, H0575: 1, S0049: 1, H0204: 1, H0596: 1, H0178: 1, H0011: 1, H0266: 1, H0290: 1, T0006: 1, H0424: 1, S0364: 1, H0616: 1, H0087: 1, H0412: 1, H0413: 1, H0100: 1, H0647: 1, H0652: 1, S0210: 1, L0369: 1, L0769: 1, L0373: 1, L0771: 1, L0364: 1, L0649: 1, L0775: 1, L0375: 1, L0651: 1, L0776: 1, L0659: 1, L0517: 1, L0783: 1, L0382: 1, L0809: 1, L0519: 1, L0663: 1,
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HOFME75	1011607	441	2 - 1024	2616	Arg-1 to Gly-7.		H0415: 5		11q13.5	133780, 266150, 276903, 276903, 276903	
HOPKO74	1011608	442	136 - 1482	2617	Arg-6 to Gly-13, Gln-132 to Glu-137, Arg-179 to Ala-200, Ala-209 to Lys-215, Glu-218 to Asp-227, Pro-239 to Lys-244, Tyr-276 to Lys-283, Ile-361 to Asp-367, Met-371 to Asp- 376, Asp-391 to Lys-411, Pro-440 to Leu-449.	L0747: 55, H0551: 25, H0135: 24, S0126: 20, H0619: 14, L0750: 14, S0418: 12, S0360: 12, H0547: 12, S0028: 12, L0754: 12, L0659: 11, H0123: 10, L0665: 9, H0693: 9, S3014: 9, S0027: 9, S0040: 8, L0654: 8, L0595: 8, H0050: 7, L0363: 7, L0666: 7, L0601: 7, S0212: 6, L0717: 6, H0599: 6, H0081: 6, H0012: 6, H0024: 6,	11q13.5	133780, 266150, 276903, 276903, 276903			

	S0250: 6, H0623: 6, H0520: 6, S0390: 6, S0436: 6, L0593: 6, H0645: 5, H0545: 5, L0483: 5, H0553: 5, H0040: 5, L0770: 5, L0565: 5, H0519: 5, H0684: 5, S0037: 5, L0743: 5, L0605: 5, S0342: 4, S0420: 4, S0376: 4, S0045: 4, S0046: 4, H0486: 4, H0266: 4, H0286: 4, H0100: 4, L0769: 4, L5565: 4, L0662: 4, L0649: 4, L0776: 4, L0663: 4, H0658: 4, L0749: 4, L0731: 4, L0757: 4, L0597: 4, L0591: 4, H0352: 4, H0624: 3, H0265: 3, H0556: 3, S0476: 3, H0013: 3, H0253: 3, H0544: 3, H0428: 3, H0031: 3, H0644: 3, L0762: 3, L0637: 3, L5566: 3, L0768: 3, L0775: 3, L0375: 3, L0657: 3, L0664: 3, S0152: 3, L0744: 3,					
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L0748: 3, L0740: 3, L0751: 3, H0295: 2, S0298: 2, H0661: 2, S0356: 2, H0676: 2, H0592: 2, H0333: 2, T0039: 2, T0060: 2, H0635: 2, H0251: 2, H0046: 2, L0471: 2, H0594: 2, H0292: 2, H0615: 2, H0634: 2, H0413: 2, H0059: 2, L0564: 2, S0440: 2, S0210: 2, S0422: 2, L0598: 2, H0529: 2, L0806: 2, L0653: 2, L0438: 2, H0689: 2, H0672: 2, H0521: 2, S0406: 2, H0555: 2, S3012: 2, S0032: 2, L0755: 2, H0445: 2, L0596: 2, L0588: 2, L0589: 2, L0590: 2, S0192: 2, H0739: 1, H0171: 1, H0713: 1, H0717: 1, H0716: 1, T0049: 1, H0669: 1, H0663: 1, H0664: 1, H0662: 1, H0638: 1, S0354: 1, S0358: 1, S0410: 1, H0729: 1,
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[illegible]

HCBBA51	1011755	443	57 - 266	2618	Pro-11 to Phe-16, Thr-48 to Ser-60.	L0651: 1, L0508: 1, L0656: 1, L0782: 1, L0783: 1, L0383: 1, L0519: 1, L0545: 1, L0543: 1, L5623: 1, L0793: 1, S0006: 1, H0144: 1, H0682: 1, H0435: 1, H0660: 1, H0539: 1, H0522: 1, H0694: 1, L0439: 1, L0758: 1, L0362: 1, S0011: 1, H0668: 1, H0665: 1, H0667: 1, S0194: 1, S0196: 1, H0542: 1, S0042: 1 and H0008: 1.		
						H0659: 16, L0747: 15, S0358: 14, L0005: 13, L0758: 9, S0360: 8, L0775: 8, H0648: 8, H0657: 6, L0731: 6, L0757: 6, H0341: 5, H0412: 5, S0440: 5, H0658: 5, H0710: 5, L0750: 5, L0588: 5, S0007: 4, S0046: 4, H0599: 4, L0520: 4, L0764: 4, L0768: 4, H0170: 3, H0306: 3, H0125: 3, S0408: 3,		

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S0376: 1, S0444: 1, S0410: 1, S0045: 1, S0132: 1, H0411: 1, S0278: 1, S6022: 1, H0441: 1, H0609: 1, T0039: 1, H0013: 1, H0635: 1, H0042: 1, T0048: 1, H0421: 1, H0173: 1, H0052: 1, H0204: 1, H0597: 1, H0044: 1, H0546: 1, H0046: 1, H0150: 1, H0009: 1, H0023: 1, H0373: 1, L0163: 1, H0201: 1, S0048: 1, S0388: 1, S0051: 1, H0408: 1, H0238: 1, H0622: 1, T0023: 1, H0031: 1, H0606: 1, H0673: 1, H0163: 1, H0040: 1, H0634: 1, H0616: 1, T0069: 1, T0041: 1, H0494: 1, H0646: 1, S0144: 1, S0142: 1, S0344: 1, L0598: 1, L0762: 1, L0763: 1, L0769: 1, L0637: 1, L0761: 1, L0373: 1, L0773: 1, L0522: 1, L0803: 1,					
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HDHEB13	1011773	444	31 - 972	2619	Gly-1 to Glu-11, Arg-54 to Ser-60, Pro-68 to Gly-78, Pro-92 to Gly-126, Ala-134 to Asn-143, Thr-145 to Gly-162, Gly-173 to Ser-179, Lys-187 to Leu-194, Glu-205 to Ser-213, Ser-283 to Phe-289, Ala-306 to Glu-313.	L0774: 1, L0375: 1, L0653: 1, L0542: 1, L0782: 1, L0783: 1, L0789: 1, S0428: 1, S0053: 1, H0690: 1, H0682: 1, H0670: 1, H0651: 1, S0378: 1, S0380: 1, H0134: 1, H0436: 1, S0027: 1, L0751: 1, S0260: 1, H0445: 1, S0394: 1, S0011: 1, H0653: 1, H0136: 1, S0194: 1 and H0423: 1.		
HDTMG36	1011821	445	3 - 248	2620	Pro-28 to Gln-35, Leu-71 to Pro-77.	L0777: 4, L0747: 3, S0007: 1, H0351: 1, H0550: 1, H0013: 1, H0570: 1, H0123: 1, H0019: 1, H0012: 1, H0553: 1, L0794: 1, L0759: 1 and H0352: 1.		
HVVJC38	1011830	446	2 - 817	2621	Thr-121 to Asn-126, Ala-134 to Ala-140, Arg-174 to Arg-184.	L0771: 5, L0439: 5, L0761: 4, L0794: 4, L0809: 4, L0666: 4.		

Ser-194 to Glu-199, Met-208 to Gln-217, Arg-258 to Gly-263.	L0743: 4, L0758: 4, H0661: 3, H0638: 3, H0618: 3, L0770: 3, L0803: 3, L0659: 3, L0790: 3, H0662: 2, H0181: 2, S0144: 2, S0142: 2, L0800: 2, L0663: 2, H0539: 2, L0740: 2, L0750: 2, H0713: 1, H0583: 1, S0212: 1, H0483: 1, H0402: 1, S0418: 1, S0356: 1, S0360: 1, S0222: 1, H0486: 1, T0109: 1, H0250: 1, H0575: 1, H0253: 1, H0052: 1, H0194: 1, H0544: 1, H0546: 1, H0545: 1, H0024: 1, H0355: 1, H0688: 1, H0617: 1, H0124: 1, H0135: 1, H0163: 1, H0413: 1, S0038: 1, T0041: 1, H0509: 1, H0529: 1, L0371: 1, L0769: 1, L0638: 1, L0764: 1, L0648: 1, L0662: 1, L0804: 1, L0775: 1, L0629: 1, L0657: 1, L0656: 1,
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HPAMY22	1011840	447	1 - 180	2622	Pro-18 to Gln-36, Ser-43 to Ala-57.		H0682: 1			
HE9CP86	1011847	448	107 - 727	2623	Arg-13 to Arg-19, Asp-37 to Asp-43, Glu-127 to Asp-132, Asn-152 to Glu-171, Ala-179 to Ala-193.		L0748: 18, L0749: 8, L0755: 7, H0686: 4, S0360: 3, H0519: 3, H0659: 3, L0747: 3, L0758: 3, H0341: 2, H0622: 2, H0040: 2, H0616: 2, L0772: 2, L0375: 2, L0754: 2, L0779: 2, H0542: 2, H0294: 1, H0657: 1, H0656: 1, S0116: 1, H0663: 1, H0638: 1, S0376: 1, H0393: 1, H0083: 1, H0030: 1, L0055: 1, H0068: 1, H0591: 1, H0038: 1, H0412: 1, H0100: 1, L0475: 1, S0422: 1, L0763: 1, L0771: 1,			

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HPDOU46	1011883	449	24 - 692	2624			H0658: 2, L0750: 2, L0806: 1, L0790: 1 and L0779: 1.			
HFCDW73	1011901	450	3 - 425	2625			H0575: 1 and H0009: 1.			
HOVEB13	1011919	451	21 - 905	2626	Val-7 to Ser-12, Leu-79 to Asn-87, Lys-120 to Ala-125, Ala-166 to Arg-171, Lys-208 to Phe-217, Gln-234 to Pro-241, Asp-285 to Gln-290.		AR033: 6, AR089: 5, AR096: 4, AR055: 3, AR052: 3, AR060: 3, AR053: 2, AR061: 2, AR039: 1, AR104: 0 L0779: 4, H0428: 3, L0773: 2, L0662: 2, L0659: 2, L0602: 2, L0777: 2, L0596: 2, L0608: 2, H0170: 1, H0580: 1, S0045: 1, T0048: 1, H0052: 1, L0471: 1, H0628: 1, L0770: 1, L0761: 1, L0805: 1, L0653: 1, L0657: 1, L0512: 1,			

						H0682: 1, H0672: 1, L0748: 1, L0740: 1, L0749: 1, L0757: 1, S0031: 1, H0543: 1 and H0677: 1.			
HPAMS93	I011948	452	74 - 1114	2627		L0754: 8, L0766: 6, L0439: 6, S0414: 4, L0758: 4, S0360: 3, L0803: 3, L0666: 3, L0756: 3, L0731: 3, S0218: 2, H0676: 2, H0251: 2, H0457: 2, H0083: 2, H0038: 2, H0616: 2, L0770: 2, L0775: 2, H0144: 2, H0682: 2, H0436: 2, L0752: 2, L0485: 2, L0594: 2, H0624: 1, S0430: 1, H0657: 1, H0341: 1, S0358: 1, H0411: 1, H0431: 1, T0039: 1, H0013: 1, L0021: 1, H0194: 1, H0050: 1, H0020: 1, H0051: 1, H0375: 1, H0594: 1, S0003: 1, H0272: 1, S0386: 1, H0494: 1, S0438: 1, H0652: 1, S0422: 1, H0529: 1, L0765: 1,			

							L0771: 1, L0521: 1, L0804: 1, L0774: 1, L0651: 1, L0776: 1, L0655: 1, L0659: 1, L0809: 1, L0647: 1, L0789: 1, L0790: 1, L0663: 1, L0664: 1, L0665: 1, S0374: 1, L0438: 1, H0519: 1, S0188: 1, H0478: 1, H0626: 1, S0028: 1, L0779: 1, L0777: 1, L0780: 1, L0759: 1, S0031: 1, H0445: 1 and S0026: 1.			
HCRBN71	1011966	453	1 - 420	2628			L0776: 6, L0766: 5, L0777: 3, L0758: 3, L0755: 2, H0327: 1, L0768: 1, L0805: 1, L0655: 1, L0788: 1, H0648: 1, H0672: 1, S0406: 1, L0747: 1, L0752: 1, L0757: 1 and S0196: 1.			
HCRNC60	1012005	454	637 - 1302	2629	Pro-16 to Asp-25, Arg-44 to Glu-50, Ser-63 to Arg-69, Glu-108 to Arg-115, Lys-122 to Gly-136, Arg-143 to Met-151,	L0471: 11, H0251: 9, L0163: 7, H0599: 5, H0295: 4, H0373: 4, S0210: 4, S0126: 3, S0356: 2, S0358: 2, H0619: 2, H0012: 2,	15q22.1	151670, 191010, 601780		

						Asp-167 to Glu-173, Asp-185 to Glu-194, Thr-206 to Asp-213. H0628: 2, S0364: 2, H0551: 2, H0519: 2, S0026: 2, H0170: 1, T0049: 1, S0134: 1, H0656: 1, H0662: 1, S0418: 1, S0420: 1, S0354: 1, S0360: 1, T0008: 1, H0411: 1, H0431: 1, H0432: 1, H0592: 1, S0005: 1, H0574: 1, H0270: 1, T0039: 1, H0013: 1, H0002: 1, H0036: 1, S0010: 1, S0474: 1, H0196: 1, T0115: 1, H0597: 1, H0545: 1, H0050: 1, H0024: 1, S0362: 1, H0200: 1, H0266: 1, S0022: 1, H0252: 1, H0039: 1, H0644: 1, H0032: 1, S0366: 1, H0090: 1, H0591: 1, T0041: 1, T0042: 1, H0509: 1, S0374: 1, H0520: 1, H0670: 1, H0651: 1, H0539: 1, S0380: 1, S0044: 1, S0118: 1, S0028: 1, L0748: 1, L0757: 1, L0588: 1,				
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HSPSJ24	1012064	455	284 - 925	2630	Pro-83 to Gln-90, Ala-123 to Gly-131, Glu-174 to Pro-183.	S0011: 1, H0653: 1, H0665: 1, S0242: 1 and H0506: 1. S0358: 2, S0360: 2, H0251: 2, H0622: 2, S0144: 2, L0659: 2, L0751: 2, L0777: 2, H0265: 1, S0134: 1, H0657: 1, H0486: 1, H0575: 1, S0010: 1, H0581: 1, H0052: 1, H0085: 1, H0266: 1, H0687: 1, H0644: 1, H0617: 1, L0662: 1, L0766: 1, L0549: 1, L0774: 1, L0775: 1, L0806: 1, L0657: 1, L0382: 1, H0683: 1, H0522: 1, H0555: 1, H0576: 1, L0754: 1, L0749: 1, L0758: 1, L0599: 1 and S0446: 1.	14q11.2	182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279
HPCPB22	1012076	456	3 - 554	2631	Arg-88 to Lys-93, Tyr-101 to Gly-107, Arg-169 to Pro-184.	H0659: 2 and L0378: 1.		
HOVDZ22	1012136	457	2 - 169	2632	Tyr-1 to Gly-13.	H0529: 7, L0766: 6, L0809: 6, L0777: 5, H0428: 3, H0656: 2, H0013: 2, H0620: 2, L0806: 2, L0665: 2,		

HBZSK53	1012240	458	2 - 721	2633	Pro-6 to Gln-11.	H0547: 2, L0748: 2, L0747: 2, L0756: 2, L0601: 2, H0484: 1, H0192: 1, S0420: 1, S0358: 1, H0575: 1, H0581: 1, H0046: 1, H0012: 1, T0010: 1, H0266: 1, H0622: 1, H0165: 1, H0673: 1, L0456: 1, H0068: 1, H0135: 1, H0087: 1, H0264: 1, H0412: 1, H0560: 1, L0763: 1, L0770: 1, L0771: 1, L0649: 1, L0561: 1, L0375: 1, L0805: 1, L0776: 1, L0518: 1, L0783: 1, L0666: 1, L0663: 1, H0520: 1, H0519: 1, S0126: 1, H0659: 1, H0672: 1, H0539: 1, H0436: 1, S3014: 1, L0741: 1, L0749: 1, L0750: 1, L0779: 1, L0731: 1, L0589: 1, L0581: 1, L0608: 1 and S0011: 1.		
						H0584: 59, S0278: 16, S0444: 10, L0775: 10, L0809: 10, H0545: 9.		

S0144: 9, H0670: 9, S0408: 8, S0410: 7, L0761: 7, L0766: 7, L0731: 7, L0757: 7, H0617: 6, L0774: 6, H0656: 5, H0255: 5, S0358: 5, H0559: 5, H0620: 5, L0772: 5, S0328: 5, L0747: 5, H0341: 4, H0546: 4, H0059: 4, L0800: 4, L0754: 4, L0758: 4, H0638: 3, H0580: 3, H0250: 3, S0440: 3, H0652: 3, S0142: 3, L0764: 3, L0653: 3, L0783: 3, S0374: 3, H0522: 3, H0624: 2, H0657: 2, H0402: 2, H0637: 2, H0586: 2, H0486: 2, H0581: 2, L0763: 2, L0770: 2, L0374: 2, L0771: 2, L0773: 2, L0776: 2, L0790: 2, S0052: 2, H0684: 2, S0406: 2, S3014: 2, S0027: 2, L0779: 2, L0777: 2, H0445: 2, L0601: 2, H0167: 1, H0716: 1,					
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HBCPH02	1012453	459	3 - 773	2634	Arg-9 to Asp-14,	S0218: 1, L0785: 1, S0116: 1, H0254: 1, H0306: 1, S0442: 1, S0354: 1, S0045: 1, H0549: 1, H0587: 1, H0635: 1, H0575: 1, H0590: 1, S0182: 1, H0318: 1, H0421: 1, H0150: 1, H0123: 1, H0083: 1, H0179: 1, H0628: 1, H0063: 1, H0100: 1, T0042: 1, H0560: 1, H0641: 1, S0344: 1, L0769: 1, L0646: 1, L0644: 1, L0768: 1, L0794: 1, L0806: 1, L0655: 1, L0383: 1, L0791: 1, L0663: 1, S0216: 1, H0699: 1, H0703: 1, H0593: 1, S0126: 1, H0690: 1, H0672: 1, S0190: 1, H0187: 1, H0576: 1, L0611: 1, S0028: 1, L0749: 1, L0750: 1, L0755: 1, H0343: 1, H0668: 1, H0653: 1, H0543: 1 and H0422: 1.		
						H0032: 3, H0090: 3,		

HCONM62	1012454	460	20 - 1306	2635	<p>Leu-38 to Gly-59, Pro-62 to Thr-75, Met-83 to Val-90, Thr-94 to Ser-105, Pro-109 to Glu-125, Phe-134 to Ser-139, Ile-141 to Lys-162, Cys-166 to Pro-180, Leu-202 to Pro-207, Ile-248 to Asn-253.</p>	<p>S0114: 2, H0123: 2, H0494: 2, H0445: 2, H0663: 1, H0455: 1, H0036: 1, H0457: 1, H0050: 1, H0039: 1, H0212: 1, H0433: 1, L0766: 1, S0206: 1 and L0749: 1.</p>	7q31	<p>126650, 126650, 164860, 180105, 222800, 246900, 274600, 274600, 602081</p>
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L0372: 3, L0764: 3, L0666: 3, H0519: 3, S0027: 3, S0028: 3, L0439: 3, L0750: 3, L0777: 3, H0665: 3, H0656: 2, H0638: 2, L0562: 2, L0539: 2, S0360: 2, H0208: 2, S0045: 2, L0717: 2, H0549: 2, H0586: 2, H0156: 2, H0052: 2, H0545: 2, H0024: 2, H0424: 2, H0213: 2, H0030: 2, H0087: 2, H0100: 2, T0042: 2, H0494: 2, H0560: 2, H0561: 2, S0440: 2, L0369: 2, L0640: 2, L0761: 2, L0646: 2, L0659: 2, L0540: 2, L0382: 2, L0809: 2, L0664: 2, L0438: 2, H0593: 2, H0648: 2, H0555: 2, L0757: 2, L0758: 2, S0434: 2, L0595: 2, S0192: 2, H0423: 2, H0422: 2, H0677: 2, H0624: 1, S0342: 1, S0218: 1, H0650: 1, H0657: 1,					
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HOGU69	1012459	461	2 - 69I	2636	Arg-1 to Ala-11, Ser-118 to Gln-126, Leu-200 to Thr-207, Lys-213 to Ala-218, Glu-225 to Thr-230.	S0422: 1, S0002: 1, L0598: 1, H0529: 1, L0641: 1, L0374: 1, L0645: 1, L0648: 1, L0650: 1, L0375: 1, L0378: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0661: 1, L0634: 1, L0636: 1, L0517: 1, L0518: 1, L0384: 1, L0647: 1, L0789: 1, L0791: 1, L0792: 1, H0144: 1, H0701: 1, S0126: 1, H0690: 1, H0659: 1, H0672: 1, H0539: 1, S0378: 1, H0518: 1, S0152: 1, S0044: 1, H0576: 1, H0631: 1, S0032: 1, L0741: 1, L0743: 1, L0745: 1, L0779: 1, L0752: 1, L0592: 1, H0668: 1 and H0542: 1.	L0740: 13, L0731: 10, L0755: 8, L0752: 6, H0551: 5, L0766: 5, H0672: 5, L0776: 4, L0757: 4, L0759: 4, H0494: 3, L0775: 3,	5q22-q23	121050, 126150, 159000, 175100, 175100, 175100,
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L0529: 3, H0521: 3, H0318: 2, H0178: 2, H0553: 2, H0641: 2, L0763: 2, L0770: 2, L0769: 2, L0662: 2, L0651: 2, L0659: 2, L0519: 2, L0750: 2, S0434: 2, H0624: 1, T0002: 1, H0650: 1, S0212: 1, H0638: 1, S0358: 1, S0444: 1, H0637: 1, S0132: 1, H0431: 1, H0586: 1, H0497: 1, H0530: 1, H0546: 1, H0545: 1, H0355: 1, H0510: 1, S0314: 1, H0598: 1, H0413: 1, H0560: 1, S0438: 1, H0509: 1, H0633: 1, S0422: 1, L0371: 1, L0764: 1, L0765: 1, L0768: 1, L0650: 1, L0774: 1, L0806: 1, L0657: 1, L0809: 1, L0664: 1, L0665: 1, H0144: 1, H0547: 1, H0682: 1, H0435: 1, H0648: 1, H0539: 1, S0380: 1, S0152: 1, H0555: 1,	175100, 175100, 175100, 179095, 192974, 192974, 601596
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							L0749: 1, L0758: 1, H0445: 1, L0595: 1 and S0192: 1.			
HVVD93	1012469	462	2 - 829	2637		Gln-3 to Cys-12, Thr-19 to Thr-25.	L0758: 5, L0769: 4, L0766: 3, L0809: 3, L0774: 2, L0790: 2, L0663: 2, L0439: 2, L0752: 2, S0218: 1, H0583: 1, S0442: 1, S6022: 1, H0441: 1, H0574: 1, H0150: 1, S0388: 1, S0364: 1, H0743: 1, L0369: 1, L0770: 1, L0638: 1, L0644: 1, L0764: 1, L0648: 1, L0662: 1, L0794: 1, L0803: 1, L0636: 1, L0368: 1, L0666: 1, L0664: 1, L0565: 1, L0438: 1, H0682: 1, H0672: 1, L0741: 1, L0743: 1, L0748: 1, L0751: 1, L0754: 1, L0747: 1, L0749: 1, L0777: 1, L0759: 1, S0434: 1 and L0592: 1.			
HCOMV86	1012482	463	313 - 834	2638			H0521: 91, H0580: 23, H0522: 22, H0445: 14, H0638: 12, H0656: 11.	6p21.3		106300, 108800, 120290,

H0486: 8, H0090: 7, H0583: 5, H0125: 5, S0358: 5, H0581: 5, H0591: 5, H0561: 5, H0657: 4, S0442: 4, H0575: 4, H0634: 4, H0134: 4, H0427: 3, H0318: 3, H0050: 3, H0264: 3, H0648: 3, H0518: 3, L0599: 3, H0650: 2, S0376: 2, S0408: 2, H0586: 2, H0069: 2, H0635: 2, H0086: 2, H0252: 2, H0488: 2, H0560: 2, H0641: 2, L0776: 2, H0660: 2, L0748: 2, L0745: 2, S0434: 2, H0265: 1, H0556: 1, S0360: 1, H0676: 1, H0637: 1, H0619: 1, H0393: 1, H0440: 1, H0549: 1, H0431: 1, H0592: 1, H0574: 1, H0250: 1, H0004: 1, H0421: 1, H0242: 1, H0375: 1, H0109: 1, T0023: 1, H0031: 1, H0673: 1, H0376: 1, H0063: 1, S0440: 1,	120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
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HCONJ23	1012519	464	43 - 990	2639	Met-8 to Lys-13, Pro-23 to Trp-30.	H0647: 1, H0646: 1, S0002: 1, S0426: 1, L0768: 1, L0649: 1, L0805: 1, L0659: 1, H0702: 1, H0689: 1, H0684: 1, H0670: 1, H0539: 1, H0709: 1, S0146: 1, H0576: 1, L0744: 1, L0754: 1, L0749: 1, L0750: 1, L0777: 1, L0752: 1, L0755: 1, S0260: 1, S0308: 1, H0707: 1, L0581: 1, H0677: 1 and H0506: 1.	8q11	600899	
						L0777: 14, L0748: 9, L0747: 7, S0026: 6, S0360: 4, H0519: 4, L0749: 4, L0759: 4, H0677: 4, H0686: 3, H0014: 3, H0090: 3, L0662: 3, L0794: 3, L0766: 3, H0659: 3, S0404: 3, L0439: 3, L0740: 3, L0754: 3, L0750: 3, S0276: 3, H0170: 2, H0171: 2, H0657: 2, H0341: 2, S0212: 2, S0420: 2, S0356: 2, S0444: 2,			

			S0222: 2, H0392: 2, H0486: 2, H0266: 2, H0032: 2, L0767: 2, L0803: 2, L0805: 2, L0655: 2, L0657: 2, L0659: 2, L0809: 2, H0144: 2, S0374: 2, L0756: 2, L0758: 2, S0436: 2, L0591: 2, L0485: 2, H0556: 1, H0220: 1, H0656: 1, S0001: 1, H0661: 1, H0662: 1, S0358: 1, S0376: 1, S0408: 1, S0410: 1, H0619: 1, H0600: 1, H0643: 1, H0013: 1, H0427: 1, H0156: 1, H0599: 1, H0575: 1, S0010: 1, S0346: 1, H0318: 1, H0251: 1, L0163: 1, S0388: 1, S0051: 1, H0271: 1, H0644: 1, H0111: 1, H0617: 1, H0673: 1, H0169: 1, L0456: 1, H0376: 1, H0598: 1, H0591: 1, H0040: 1, H0063: 1, H0413: 1, T0042: 1, H0560: 1, S0294: 1,					
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								S0450: 1, L0065: 1, S0422: 1, S0002: 1, L0598: 1, H0529: 1, L0770: 1, L0769: 1, L0761: 1, L0646: 1, L0649: 1, L0388: 1, L0775: 1, L0652: 1, L0629: 1, L0527: 1, L0790: 1, L0666: 1, L0663: 1, L0664: 1, S0052: 1, H0691: 1, H0520: 1, H0547: 1, H0682: 1, H0658: 1, H0670: 1, H0666: 1, H0648: 1, S0146: 1, L0743: 1, L0751: 1, L0752: 1, H0445: 1, S0434: 1, L0608: 1, H0665: 1, S0192: 1, S0194: 1, H0543: 1 and H0423: 1.			
HVVBL04	1012536	465	2 - 310	2640	Lys-2 to Glu-13, Asn-39 to Glu-47, Arg-49 to Glu-56, Lys-73 to Arg-85.		H0672: 2				
HVVAF65	1012542	466	3 - 731	2641			L0748: 19, L0439: 7, L0731: 6, L0775: 4, S0356: 2, H0421: 2, H0509: 2, L0805: 2, L0783: 2, L0809: 2,	17q24-q25	114290, 115660, 138033, 139250, 148500,		

						S0136: 2, L0740: 2, L0747: 2, L0749: 2, L0599: 2, L0362: 2, H0170: 1, S0470: 1, L0005: 1, S0354: 1, S0376: 1, S0045: 1, S0278: 1, H0642: 1, H0331: 1, H0574: 1, H0036: 1, S0346: 1, H0318: 1, L0157: 1, H0050: 1, L0471: 1, H0024: 1, H0275: 1, H0594: 1, H0267: 1, S0003: 1, H0031: 1, H0412: 1, T0069: 1, H0100: 1, T0041: 1, L0475: 1, S0142: 1, S0002: 1, L0769: 1, L0776: 1, L0655: 1, L0527: 1, L0664: 1, S0374: 1, L0438: 1, H0658: 1, H0672: 1, S0380: 1, S0350: 1, H0521: 1, S0146: 1, L0777: 1, L0752: 1, L0753: 1, L0757: 1 and L0581: 1.		150200, 154275, 162100, 170500, 170500, 170500, 180860, 182452, 230200, 249000, 253250, 264470
HCONN76	1012545	467	1 - 1716	2642	Tyr-1 to Ser-12.	H0423: 16, H0521: 11, L0777: 10, H0622: 9, L0751: 9, H0641: 8,	120220, 120240, 123580,	

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HVVA56	1012568	468	3 - 1382	2643	Cys-2 to Ser-16, Glu-55 to Lys-61, Pro-83 to Leu-88, Ser-135 to Pro-148, Val-152 to Arg-163, Pro-223 to Thr-230, Ala-242 to Val-253, Arg-258 to Glu-274, Gly-290 to Asp-300, Lys-337 to Asn-345, Asp-373 to Ala-398, Gly-401 to Lys-406, Gln-410 to Ala-430, Pro-433 to Gln-460.	S0434: 1, L0604: 1 and H0542: 1. L0766: 9, L0777: 9, H0529: 8, H0521: 7, L0731: 7, S0360: 6, L0758: 6, H0494: 5, L0749: 5, L0759: 5, S0376: 4, H0639: 4, S0422: 4, L0665: 4, H0144: 4, H0520: 4, H0547: 4, L0439: 4, H0423: 4, S0424: 4, H0581: 3, L0471: 3, H0266: 3, S0150: 3, L0764: 3, L0803: 3, L0659: 3, L0666: 3, H0519: 3, H0659: 3, H0696: 3, L0755: 3, H0716: 2, H0662: 2, S0356: 2, S0046: 2, H0013: 2, H0545: 2, H0457: 2, H0551: 2, H0100: 2, L0475: 2, L0598: 2, L0763: 2, L0770: 2, L0637: 2, L0772: 2, L0765: 2, L0662: 2, L0649: 2, L0774: 2, L0775: 2, L0776: 2, L0809: 2, H0689: 2, S0406: 2.	
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HODEG95	1012599	469	243 - 749	2644	Arg-33 to Gly-38, Pro-40 to Lys-52.	S0460: 1, H0506: 1 and H0352: 1.		
HCOOX52	1012600	470	2 - 1567	2645	Arg-41 to Gly-65, Pro-88 to Ser-96, Thr-104 to Thr-141, Glu-209 to Asn-214, Arg-263 to Ser-269, Ser-274 to Ala-279, Lys-290 to Ile-296, Lys-320 to Glu-333, Val-517 to Ala-522.	H0615: 2 and H0343: 1. L0581: 63, L0748: 35, H0575: 22, L0599: 19, H0046: 17, L0659: 17, L0745: 16, H0510: 15, L0662: 15, L0665: 15, L0747: 14, H0509: 12, L0744: 12, L0754: 12, H0069: 11, L0751: 11, H0574: 10, L0750: 10, H0031: 9, H0124: 9, L0757: 9, H0150: 8, H0039: 8, S0360: 7, S0132: 7, H0644: 7, S0027: 7, S0212: 6, H0393: 6, H0622: 6, H0591: 6, L0803: 6, L0806: 6, H0658: 6, S0044: 6, S0028: 6, S0358: 5, H0549: 5, H0331: 5, H0427: 5, H0251: 5, H0014: 5, H0687: 5, H0059: 5, L0595: 5, L0600: 5, H0632: 4, H0618: 4, H0200: 4, H0090: 4, H0038: 4, L0770: 4,	11q12-q13.1 106100, 133780, 147050, 259700, 259770, 600045, 601650, 601884	

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HVVR10	1012618	471	3 - 1079	2646	Lys-52 to Ser-59, Lys-121 to Pro-128, Ser-183 to Thr-189.	H0422: 1, S0042: 1, H0008: 1 and H0352: 1. L0439: 13, L0748: 11, L0601: 8, L0747: 7, L0750: 7, L0438: 5, L0757: 5, L0770: 4, L0769: 4, L0764: 4, L0766: 4, L0731: 4, L0803: 3, L0775: 3, L0666: 3, H0521: 3, L0751: 3, L0758: 3, S0418: 2, H0550: 2, H0013: 2, H0052: 2, H0622: 2, H0494: 2, L0646: 2, L0771: 2, L0774: 2, L0663: 2, L0565: 2, H0593: 2, H0689: 2, H0672: 2, S0328: 2, L0752: 2, L0587: 2, L0600: 2, H0556: 1, H0583: 1, H0656: 1, H0341: 1, S0001: 1, S0360: 1, H0549: 1, H0455: 1, H0586: 1, H0587: 1, H0156: 1, H0253: 1, H0318: 1, H0581: 1, T0110: 1, H0150: 1, H0019: 1, H0050: 1, H0620: 1, S0050: 1,		
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HVVBK78	1012645	472	44 - 643	2647	Arg-11 to Arg-20.	H0672: 1 and S3014: 1.
HVVBK73	1012646	473	2 - 745	2648		H0036: 1, H0644: 1, . H0672: 1 and L0603: 1

HCOMW35	1012652	474	3 - 527	2649	Asp-49 to Asp-59, Asp-110 to Ile-115, Trp-137 to Ser-144.	L0766: 10, S0358: 4, H0318: 3, L0809: 3, S0360: 2, H0617: 2, H0264: 2, L0769: 2, L0775: 2, H0670: 2, H0462: 1, H0646: 1, L0761: 1, L0764: 1, L0771: 1, L0773: 1, L0805: 1, L0787: 1, S0374: 1, H0684: 1, L0779: 1 and L0758: 1.	22q13.31	250100, 250800, 250800
HVVB28	1012654	475	2 - 1117	2650	Arg-1 to Gly-12, Gly-19 to Trp-25, Asp-31 to Gly-39, Gly-43 to Glu-52, Ala-63 to His-71, Asn-141 to Phe-152, Leu-200 to Leu-208.	L0803: 4, L0745: 4, L0758: 4, H0672: 3, S0007: 2, H0090: 2, L0769: 2, L0804: 2, L0774: 2, L0809: 2, L0439: 2, L0749: 2, L0731: 2, L0599: 2, L0362: 2, S0418: 1, S0360: 1, S0046: 1, H0431: 1, H0486: 1, H0013: 1, L0021: 1, H0042: 1, S0010: 1, H0052: 1, H0046: 1, H0024: 1, H0266: 1, H0687: 1, S0022: 1, H0553: 1, L0770: 1, L0794: 1, L0783: 1, L0529: 1, H0435: 1, S0152: 1, H0521: 1,	4q27-q28	107250, 134820, 134820, 134820, 134820, 134830, 134850, 134850, 147680, 181600, 189800, 266300, 600919

HVVBR45	1012657	476	102 - 1742	2651	Arg-23 to Thr-28, Val-58 to Leu-67, Pro-115 to Thr-122.	S0044: 1, H0555: 1, S0260: 1, L0366: 1, H0543: 1 and H0352: 1. L0747: 15, L0740: 14, L0779: 13, L0439: 9, L0731: 9, L0748: 8, L0776: 7, L0455: 6, L0769: 6, L0744: 6, L0756: 6, L0758: 6, S0328: 5, H0521: 5, L0752: 5, H0295: 4, L0717: 4, L0663: 4, H0672: 4, S0360: 3, S0046: 3, H0427: 3, H0599: 3, H0036: 3, H0687: 3, S0250: 3, S0022: 3, S0036: 3, L0770: 3, L0662: 3, L0774: 3, L0806: 3, L0783: 3, S0052: 3, H0144: 3, S0126: 3, H0660: 3, H0539: 3, L0742: 3, S0194: 3, H0556: 2, T0049: 2, H0662: 2, S0045: 2, H0619: 2, L0622: 2, H0013: 2, H0318: 2, S0049: 2, H0356: 2, H0553: 2, S0364: 2, S0366: 2, H0551: 2,	17q21.3	109270, 109270, 109270, 109270, 109270, 148065, 148080, 154275, 156490, 171190, 185800, 221820, 249000, 253250, 600119, 600119, 600525, 601844
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HVVAF41	1012665	477	59 - 550	2652	Pro-58 to Ser-64.	S0260: 1, H0595: 1, L0591: 1, L0601: 1, L0366: 1, H0665: 1, H0667: 1, S0458: 1, S0446: 1 and H0352: 1.	11q23	107680, 107680, 107680, 107680, 107680, 107680, 107720, 133780, 147791, 159555, 168000, 186740, 186830, 188025, 203750, 261640, 600048, 601382, 602574, 602574
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HVVAS32	1012668	478	105 - 2138	2653		H0542: 1, H0543: 1, S0424: 1, S0452: 1 and S0458: 1.	3q13	146200, 190300, 258900, 600882
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HVVAQ70	1012678	479	131 - 982	2654	Leu-59 to Cys-66, Gln-74 to Leu-82, Asn-107 to Arg-121, Thr-160 to Ser-166, Lys-198 to Ile-203.	H0052: 1, H0596: 1, H0150: 1, H0562: 1, H0024: 1, H0373: 1, T0010: 1, S6028: 1, H0687: 1, T0023: 1, H0553: 1, H0644: 1, S0364: 1, H0090: 1, H0040: 1, H0616: 1, T0067: 1, H0413: 1, S0038: 1, S0386: 1, S0150: 1, H0641: 1, L0520: 1, L0770: 1, L0637: 1, L0772: 1, L0372: 1, L0646: 1, L0800: 1, L0773: 1, L0768: 1, L0659: 1, L0782: 1, L0663: 1, H0144: 1, H0520: 1, H0593: 1, H0659: 1, H0658: 1, S0328: 1, S0044: 1, S0037: 1, S0028: 1, L0740: 1, L0756: 1, L0779: 1, L0780: 1, H0665: 1, S0192: 1 and S0194: 1.	8p11.2	136350, 152760, 180100, 182900, 277700,
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					L0471: 4, L0659: 4, L0752: 4, L0755: 4, L0592: 4, L0763: 3, L0764: 3, L0756: 3, S0026: 3, H0657: 2, H0013: 2, H0052: 2, H0687: 2, H0039: 2, L0455: 2, L0772: 2, L0766: 2, L0775: 2, L0805: 2, L0665: 2, S0126: 2, H0659: 2, H0521: 2, L0750: 2, L0779: 2, L0588: 2, L0605: 2, L0593: 2, L0362: 2, H0170: 1, H0171: 1, L0448: 1, H0686: 1, S0114: 1, S0134: 1, H0583: 1, S0212: 1, H0663: 1, S0420: 1, S0358: 1, H0580: 1, S0007: 1, S0046: 1, H0393: 1, L0717: 1, H0411: 1, H0261: 1, S0222: 1, H0632: 1, L0623: 1, T0039: 1, H0069: 1, H0427: 1, H0156: 1, H0597: 1, H0546: 1, H0373: 1, S0051: 1, T0010: 1, S0214: 1,	600617
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HVVAQ22	1012684	480	43 - 573	2655	His-1 to Asn-13, Ser-31 to Ser-42, Glu-47 to Val-55, Glu-65 to Val-70, Ile-95 to Asp-100.	H0031: 1, H0090: 1, H0038: 1, H0063: 1, H0087: 1, H0551: 1, H0413: 1, S0038: 1, T0042: 1, H0494: 1, H0560: 1, H0142: 1, L0520: 1, L0637: 1, L0800: 1, L0773: 1, L0521: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0804: 1, L0774: 1, L0806: 1, L0776: 1, L0655: 1, L0657: 1, L0512: 1, L0558: 1, L0636: 1, L0635: 1, H0520: 1, H0519: 1, H0684: 1, H0660: 1, H0666: 1, H0672: 1, S0330: 1, H0522: 1, H0576: 1, S3014: 1, L0742: 1, L0758: 1, H0444: 1, L0594: 1, H0667: 1, H0136: 1, H0543: 1 and H0506: 1.	3cen-q21	
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Lys-107 to Phe-118, Asp-121 to Asn-127, Cys-136 to Lys-142, Met-165 to Glu-177.	H0411: 6, L0517: 6, H0672: 6, L0747: 6, H0369: 5, L0663: 5, S0330: 5, L0758: 5, S0358: 4, H0674: 4, L0764: 4, L0776: 4, L0783: 4, L0740: 4, S0360: 3, H0645: 3, H0550: 3, H0616: 3, L0662: 3, L0775: 3, H0144: 3, H0684: 3, L0777: 3, L0590: 3, L0599: 3, S0026: 3, S0444: 2, H0489: 2, T0039: 2, H0575: 2, H0597: 2, H0545: 2, H0015: 2, H0031: 2, H0111: 2, H0032: 2, H0169: 2, H0038: 2, T0069: 2, S0440: 2, L0772: 2, L0363: 2, L0768: 2, L0804: 2, L0782: 2, L0384: 2, L0565: 2, S0126: 2, S0328: 2, S0013: 2, H0345: 2, L0743: 2, L0749: 2, L0756: 2, L0759: 2, S0260: 2, H0506: 2, H0624: 1, H0171: 1, S0342: 1,
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H0664: 1, H0662: 1, S0408: 1, H0339: 1, S0300: 1, L0717: 1, H0600: 1, H0592: 1, H0587: 1, H0486: 1, H0013: 1, T0082: 1, S0346: 1, S0474: 1, H0251: 1, H0085: 1, H0596: 1, H0231: 1, H0544: 1, H0123: 1, T0003: 1, H0014: 1, L0163: 1, H0375: 1, H0687: 1, S0214: 1, H0328: 1, H0553: 1, H0644: 1, H0163: 1, H0090: 1, H0551: 1, H0264: 1, L0386: 1, L0533: 1, L0774: 1, L0376: 1, L0784: 1, L0378: 1, L0653: 1, L0654: 1, L0559: 1, L0659: 1, L0518: 1, L0530: 1, L0788: 1, L0791: 1, L0666: 1, L0665: 1, H0693: 1, H0658: 1, H0670: 1, S0378: 1, S0380: 1, S0044: 1, S0190: 1, S0174: 1, S0168: 1, L0751: 1, L0779: 1,					
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HTAES83	1012693	481	200 - 2128	2656	Pro-55 to Asp-61, Gln-66 to Leu-72.	L0780: 1, S0031: 1 and S0412: 1. H0457: 7, H0521: 7, H0150: 5, H0585: 4, H0255: 3, H0546: 3, H0617: 3, S0002: 3, L0659: 3, H0522: 3, S0434: 3, H0650: 2, H0254: 2, S0442: 2, S0376: 2, H0250: 2, S0003: 2, H0039: 2, H0553: 2, L0771: 2, L0662: 2, L0766: 2, H0689: 2, H0682: 2, L0751: 2, H0657: 1, S0116: 1, H0402: 1, S0418: 1, S0358: 1, S0360: 1, S0132: 1, S6026: 1, L0717: 1, S0278: 1, H0549: 1, H0610: 1, H0257: 1, H0559: 1, H0069: 1, H0581: 1, H0544: 1, H0271: 1, H0687: 1, H0286: 1, S0314: 1, H0688: 1, T0023: 1, H0606: 1, H0163: 1, H0063: 1, H0264: 1, S0464: 1, S0440: 1, H0647: 1, S0344: 1,	11q13.4- q13.5	133780, 266150, 276903, 276903, 276903
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HOCMN67	1012700	482	1 - 1182	2657			H0695: 1, L0770: 1, L0638: 1, L0761: 1, L0667: 1, L0642: 1, L0643: 1, L0764: 1, L0651: 1, L0654: 1, L0783: 1, L0788: 1, L0789: 1, L0665: 1, S0052: 1, H0144: 1, H0703: 1, H0547: 1, H0593: 1, H0690: 1, H0658: 1, H0672: 1, S0378: 1, S0406: 1, H0555: 1, H0436: 1, S0027: 1, L0758: 1, H0707: 1, S0011: 1, H0542: 1 and H0423: 1.	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721,
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									180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884
HAPOW35	1012711	483	92 - 619	2658	Ile-32 to Phe-42.				H0618: 1, H0318: 1, H0544: 1, H0046: 1, H0123: 1, H0081: 1, T0010: 1, H0083: 1, H0271: 1, H0553: 1, H0163: 1, S0002: 1, S0052: 1, H0702: 1, H0703: 1, S0374: 1, H0520: 1, H0547: 1, H0690: 1, H0672: 1, H0539: 1, S0380: 1, S0406: 1, H0576: 1, H0445: 1, S0434: 1, L0601: 1, L0366: 1, H0422: 1 and H0506: 1. S0418: 2, S0328: 2, H0521: 2, H0733: 1, S0132: 1, H0575: 1, H0024: 1, H0135: 1, H0038: 1, S0038: 1, S0406: 1, L0439: 1 and H0543: 1.
HOVJM48	1013085	484	2 - 454	2659					H0688: 2, L0766: 2, H0494: 1, L0652: 1, L0731: 1 and L0759: 1.
HBJHY84	1013213	485	1524 - 208	2660	Gln-1 to Asp-24, Phe-40 to Gln-46.				L0766: 12, L0758: 8, S0422: 7, L0794: 6, H0622: 5, H0666: 5, L0754: 5, L0592: 5, H0040: 4, L0663: 4,

					H0520: 4, L0666: 3, L0664: 3, L0665: 3, H0547: 3, L0756: 3, L0777: 3, L0731: 3, L0759: 3, S0434: 3, H0423: 3, H0624: 2, H0583: 2, S0116: 2, H0318: 2, H0581: 2, H0428: 2, L0598: 2, L0655: 2, H0690: 2, H0518: 2, H0170: 1, H0686: 1, S0134: 1, H0657: 1, H0656: 1, H0483: 1, S0376: 1, S0360: 1, S0408: 1, H0580: 1, H0329: 1, H0486: 1, H0575: 1, H0596: 1, H0046: 1, H0267: 1, H0063: 1, H0022: 1, H0625: 1, S0440: 1, S0472: 1, H0529: 1, L0761: 1, L0646: 1, L0662: 1, L0768: 1, L0364: 1, L0649: 1, L0803: 1, L0650: 1, L0774: 1, L0651: 1, L0784: 1, L0805: 1, L0607: 1, L0659: 1, L0787: 1, L0792: 1, H0519: 1,
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									H0682: 1, H0659: 1, H0658: 1, H0648: 1, S0380: 1, H0521: 1, H0555: 1, H0576: 1, S0392: 1, L0745: 1, L0749: 1, L0779: 1, H0444: 1, L0608: 1, L0362: 1, H0542: 1, L0465: 1, S0424: 1 and S0462: 1.			
HODEY05	1013215	486	525 - 701	2661	Val-10 to Ser-18, Pro-30 to Glu-36, Glu-47 to Gly-54.				H0428: 2, S0114: 1, H0656: 1, H0263: 1, H0615: 1, H0684: 1 and L0749: 1.			
HFIA S44	1013288	487	112 - 1629	2662	Arg-31 to Leu-43, Gly-63 to Trp-78, Thr-84 to Pro-89, Asp-120 to Gly-141, Glu-155 to Val-177, Leu-204 to Ser-214, Pro-230 to Lys-236, Lys-300 to Lys-307, Arg-329 to Ile-340, Pro-343 to Ala-368, Glu-375 to Pro-434, Leu-441 to Lys-446, Lys-464 to Glu-495.				14			
HHAUD68	1013349	488	212 - 538	2663	Gly-1 to Pro-6, Pro-21 to Ser-44, Pro-51 to Lys-78,				L0740: 4, H0591: 3, H0583: 2, H0013: 2, H0575: 2, H0266: 2,	6p21.3	106300, 108800, 120290,	

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H0059: 3, L0769: 3, L0764: 3, H0352: 3, S0410: 2, H0632: 2, H0599: 2, H0046: 2, H0038: 2, H0264: 2, H0646: 2, S0002: 2, H0529: 2, L0766: 2, L0653: 2, L0659: 2, L0439: 2, L0601: 2, S0134: 1, H0583: 1, L0785: 1, S0116: 1, S0212: 1, H0255: 1, S0418: 1, S0358: 1, S0444: 1, H0675: 1, H0728: 1, H0619: 1, H0549: 1, H0392: 1, H0331: 1, T0109: 1, H0013: 1, H0635: 1, H0618: 1, S0010: 1, S0474: 1, H0052: 1, L0157: 1, H0050: 1, H0051: 1, H0375: 1, H0039: 1, H0553: 1, H0644: 1, L0456: 1, S0036: 1, H0625: 1, H0633: 1, L0637: 1, L0773: 1, L0768: 1, L0794: 1, L0522: 1, L0509: 1, L0661: 1, L0526: 1, L0809: 1,	218000, 227220, 601623, 601800, 601889, 602117
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								L0663: 1, L0664: 1, L0665: 1, S0374: 1, L0438: 1, H0547: 1, H0648: 1, S0152: 1, S3014: 1, L0745: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, L0597: 1, L0608: 1, H0543: 1 and S0458: 1.			
HNTAK22	1013524	490	2 - 3175	2665	Lys-1 to Lys-21.			H0519: 2, S0126: 2, H0341: 1, H0125: 1, L0562: 1, S0049: 1, H0123: 1, H0687: 1, H0292: 1, H0284: 1, S0312: 1, S0250: 1, H0622: 1, S0466: 1, L0649: 1, S0037: 1 and H0677: 1.	7		
HOVBX78	1013687	491	185 - 646	2666				AR096: 62, AR104: 41, AR089: 24, AR060: 24, AR061: 20, AR033: 16, AR053: 11, AR055: 11, AR039: 6 H0644: 5, L0439: 4, L0438: 3, S0278: 2, L0483: 2, H0581: 1, H0046: 1, H0355: 1, H0266: 1, H0038: 1, H0670: 1, H0521: 1, S0027: 1, L0740: 1 and			

HVVAW74	1013740	492	1066 - 575	2667	Ala-16 to His-30, Leu-106 to Gly-112, Asp-129 to Pro-137, Thr-144 to Leu-150.	S0260: 1, L0526: 11, L0622: 8, H0670: 8, H0087: 7, S0360: 5, H0594: 5, H0188: 5, H0412: 5, S0206: 5, H0218: 4, S0418: 4, H0318: 4, H0024: 4, H0617: 4, L0770: 4, L0783: 4, S0328: 4, S0027: 4, H0265: 3, H0663: 3, T0048: 3, H0597: 3, H0123: 3, H0673: 3, S0366: 3, H0135: 3, H0616: 3, S0002: 3, L0775: 3, L0776: 3, L0518: 3, L0663: 3, H0144: 3, S0374: 3, S0126: 3, S0380: 3, S3014: 3, H0352: 3, H0624: 2, H0556: 2, H0219: 2, S0114: 2, H0657: 2, H0341: 2, S0110: 2, H0661: 2, H0305: 2, H0351: 2, H0492: 2, T0039: 2, H0052: 2, H0546: 2, H0178: 2, H0083: 2, H0688: 2, H0068: 2, H0038: 2, H0040: 2,	19pter-q12	
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	H0509: 2, S0142: 2, S0426: 2, L0769: 2, L0521: 2, L0768: 2, H0689: 2, L0750: 2, H0445: 2, H0170: 1, H0686: 1, H0344: 1, H0295: 1, H0294: 1, S0134: 1, S0218: 1, H0650: 1, L0760: 1, S0116: 1, S0001: 1, H0483: 1, H0255: 1, H0662: 1, H0402: 1, S0358: 1, S0376: 1, H0675: 1, H0580: 1, S0046: 1, S0132: 1, S0278: 1, H0549: 1, H0441: 1, H0370: 1, H0455: 1, H0333: 1, H0643: 1, L0623: 1, T0060: 1, H0250: 1, T0082: 1, S0010: 1, H0505: 1, H0421: 1, H0327: 1, H0545: 1, H0150: 1, H0086: 1, H0012: 1, H0099: 1, H0109: 1, H0290: 1, T0023: 1, H0031: 1, H0181: 1, H0606: 1, H0166: 1, H0674: 1, H0124: 1, H0163: 1,	
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HSPSF84	1013853	493	645 - 205	2668	Ser-4 to Arg-9, Ala-97 to Asp-104.	H0063: 1, H0551: 1, H0413: 1, H0102: 1, H0560: 1, S0372: 1, H0130: 1, S0144: 1, S0344: 1, S0422: 1, L0598: 1, L0507: 1, L0639: 1, L0648: 1, L0662: 1, L0767: 1, L0524: 1, L0805: 1, L0659: 1, L0542: 1, L0809: 1, L0530: 1, L0789: 1, H0691: 1, H0520: 1, H0519: 1, H0682: 1, H0684: 1, H0659: 1, H0658: 1, H0648: 1, H0672: 1, S0378: 1, S0152: 1, S0174: 1, H0576: 1, L0612: 1, H0540: 1, L0748: 1, L0740: 1, L0752: 1, L0758: 1, S0436: 1, L0485: 1, L0599: 1, L0608: 1, L0595: 1, L0362: 1, L0366: 1, S0106: 1, H0543: 1, S0446: 1, L0600: 1 and H0008: 1.	H0063: 1, H0551: 1, H0413: 1, H0102: 1, H0560: 1, S0372: 1, H0130: 1, S0144: 1, S0344: 1, S0422: 1, L0598: 1, L0507: 1, L0639: 1, L0648: 1, L0662: 1, L0767: 1, L0524: 1, L0805: 1, L0659: 1, L0542: 1, L0809: 1, L0530: 1, L0789: 1, H0691: 1, H0520: 1, H0519: 1, H0682: 1, H0684: 1, H0659: 1, H0658: 1, H0648: 1, H0672: 1, S0378: 1, S0152: 1, S0174: 1, H0576: 1, L0612: 1, H0540: 1, L0748: 1, L0740: 1, L0752: 1, L0758: 1, S0436: 1, L0485: 1, L0599: 1, L0608: 1, L0595: 1, L0362: 1, L0366: 1, S0106: 1, H0543: 1, S0446: 1, L0600: 1 and H0008: 1.	S0358: 6, H0024: 3, H0696: 3, L0581: 3, H0123: 2, L0776: 2.
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HPAMV95	1014003	494	3 - 713	2669	Lys-70 to Tyr-79, Lys-97 to Asp-102, Ser-154 to Ser-160, Asn-162 to Cys-169, Lys-212 to Ser-217, Ala-225 to Glu-230.	L0783: 2, H0658: 2, H0670: 2, H0648: 2, H0657: 1, S0116: 1, S0001: 1, H0661: 1, H0663: 1, H0450: 1, S6022: 1, H0438: 1, H0013: 1, S0280: 1, T0082: 1, H0421: 1, H0428: 1, T0067: 1, H0477: 1, S0038: 1, H0494: 1, L0762: 1, L0371: 1, L0800: 1, L0644: 1, L0773: 1, L0648: 1, L0662: 1, L0775: 1, L0375: 1, L0378: 1, L0806: 1, L0657: 1, L0666: 1, L0664: 1, H0682: 1, H0683: 1, S0378: 1, L0748: 1, L0751: 1, L0747: 1, L0753: 1, L0608: 1 and H0543: 1.	L0603: 8, L0754: 6, L0757: 4, L0758: 4, H0619: 3, H0622: 3, S0354: 2, S0360: 2, H0351: 2, H0586: 2, H0544: 2, N0006: 2, S0250: 2, H0030: 2, H0644: 2, H0617: 2,	17q25	114290, 138033, 162100, 170500, 170500, 170500, 180860, 264470
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HOVBX22	1014041	495	223 - 312	2670	Ile-3 to Ser-11, Arg-24 to Glu-30.	H0032: 2, S0144: 2, L0803: 2, L0565: 2, L0438: 2, L0439: 2, S0418: 1, S0358: 1, S0278: 1, H0392: 1, H0592: 1, H0587: 1, L0021: 1, H0052: 1, H0546: 1, T0010: 1, H0271: 1, H0687: 1, S0214: 1, T0006: 1, H0031: 1, H0553: 1, L0142: 1, H0606: 1, H0087: 1, S0142: 1, S0208: 1, S0426: 1, L0761: 1, L0772: 1, L0800: 1, L0648: 1, L0662: 1, L0774: 1, L0653: 1, L0776: 1, L0782: 1, L0664: 1, H0519: 1, H0689: 1, H0690: 1, H0682: 1, H0658: 1, H0672: 1, H0555: 1, L0749: 1, L0756: 1, L0779: 1, L0755: 1, L0591: 1, S0026: 1, S0192: 1 and S0196: 1.		
						H0428: 3		
HPDRB63	1014204	496	2 - 571	2671		H0123: 2, L0764: 2,		

							L0794: 2, L0803: 2, S0356: 1, H0318: 1, H0551: 1, L0662: 1, L0804: 1, H0658: 1, H0539: 1, L0786: 1, H0543: 1 and H0423: 1.			
HNHGJ66	1014252	497	2201 - 2467	2672	Lys-1 to Ser-8, Asn-32 to Asn-41, Gln-48 to Glu-53, Arg-73 to Ser-89.		AR061: 5, AR055: 3, AR096: 3, AR089: 2, AR033: 2, AR060: 2, AR104: 2, AR053: 1 S0038: 1 and S0053: 1.			
HDPPN96	1014432	498	395 - 2434	2673	Met-8 to Lys-13, Met-46 to Lys-52, Leu-89 to Lys-95, Ala-100 to Val-109, Pro-131 to Ser-160, Arg-172 to Thr-178.		H0264: 1 and H0522: 1.	1q22	104770, 107670, 110700, 145001, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 602491	
HPCTH41	1014485	499	165 - 890	2674	Ala-15 to Tyr-24, His-32 to Lys-48, Ala-60 to Gly-73, Ser-82 to Phe-88.		L0731: 10, L0758: 9, L0592: 8, L0770: 7, L0439: 7, L0754: 7, L0766: 5, L0764: 4,	11q25	602782	

Phe-105 to Phe-111, Phe-124 to Thr-138, Glu-211 to Val-217, Val-219 to Gln-224.	L0662: 4, L0659: 4, L0745: 4, L0655: 3, L0666: 3, L0663: 3, S0052: 3, L0748: 3, L0747: 3, L0750: 3, H0170: 2, S0360: 2, S0046: 2, H0013: 2, L0771: 2, L0768: 2, L0794: 2, L0803: 2, L0805: 2, L0664: 2, H0144: 2, L0565: 2, H0658: 2, H0710: 2, L0740: 2, L0749: 2, L0757: 2, L0608: 2, H0556: 1, H0686: 1, H0294: 1, S0114: 1, S0282: 1, S0029: 1, H0306: 1, L0005: 1, S0356: 1, S0300: 1, H0351: 1, H0369: 1, S0222: 1, H0587: 1, T0060: 1, H0250: 1, H0635: 1, H0156: 1, S0010: 1, H0052: 1, H0263: 1, H0596: 1, L0738: 1, H0545: 1, H0103: 1, S0051: 1, S0003: 1, S0214: 1, H0328: 1, L0143: 1, H0616: 1, H0412: 1,
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[illegible]

Ala-474 to Gly-481, Ala-489 to Tyr-494, Pro-512 to Lys-517, Arg-623 to Thr-630, Lys-673 to Ser-678, Thr-703 to His-709, Arg-714 to Arg-720, Gly-755 to Glu-766.	H0543: 6, S0040: 5, S0003: 5, S0022: 5, S0214: 5, S0144: 5, S0037: 5, L0747: 5, L0777: 5, L0362: 5, S0026: 5, T0039: 4, H0318: 4, H0266: 4, H0560: 4, L0590: 4, L0599: 4, L0594: 4, S0011: 4, H0265: 3, H0657: 3, S0116: 3, H0663: 3, S0360: 3, S0045: 3, H0497: 3, H0559: 3, S0010: 3, H0052: 3, L0483: 3, H0090: 3, H0494: 3, L0766: 3, L0659: 3, L0666: 3, H0435: 3, L0602: 3, S3012: 3, L0740: 3, L0750: 3, L0731: 3, L0759: 3, H0542: 3, S0212: 2, H0431: 2, H0024: 2, H0014: 2, H0083: 2, H0428: 2, H0628: 2, H0617: 2, H0634: 2, H0551: 2, L0065: 2, H0509: 2, S0150: 2, S0210: 2, H0529: 2, L0770: 2, L0768: 2,	601649
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L0775: 2, L0656: 2, L0663: 2, H0520: 2, H0659: 2, H0658: 2, H0670: 2, S0152: 2, H0521: 2, S0206: 2, L0751: 2, L0756: 2, L0597: 2, L0589: 2, L0485: 2, L0604: 2, L0595: 2, L0601: 2, L0603: 2, H0686: 1, H0583: 1, H0656: 1, L0785: 1, S0298: 1, H0402: 1, H0459: 1, S0418: 1, S0376: 1, H0580: 1, S0046: 1, H0393: 1, S0278: 1, H0437: 1, H0441: 1, H0370: 1, H0587: 1, H0486: 1, H0013: 1, H0427: 1, H0156: 1, H0575: 1, H0274: 1, T0048: 1, H0581: 1, H0421: 1, S0049: 1, H0251: 1, L0738: 1, H0123: 1, L0471: 1, H0051: 1, S0388: 1, S6028: 1, H0622: 1, T0023: 1, T0006: 1, H0644: 1, H0674: 1, L0455: 1, H0598: 1,
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	H0135: 1, H0616: 1, H0063: 1, T0067: 1, H0264: 1, H0268: 1, H0269: 1, H0056: 1, S0038: 1, T0042: 1, H0625: 1, H0561: 1, S0382: 1, S0464: 1, H0633: 1, S0472: 1, H0649: 1, S0142: 1, S0422: 1, L0598: 1, L0369: 1, L0769: 1, L0772: 1, L0374: 1, L0764: 1, L0771: 1, L0662: 1, L0363: 1, L0767: 1, L0388: 1, L0375: 1, L0653: 1, L0776: 1, L0661: 1, L0542: 1, L0526: 1, L0518: 1, L0519: 1, L0788: 1, S0428: 1, H0144: 1, H0547: 1, H0690: 1, H0660: 1, H0478: 1, H0627: 1, H0631: 1, S0028: 1, S0032: 1, L0743: 1, L0749: 1, L0752: 1, L0758: 1, S0031: 1, H0445: 1, L0592: 1, S0194: 1, H0423: 1, H0422: 1, S0424: 1 and
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HCOPQ33	1014730	501	3 - 380	2676	Ser-3 to Gln-34, Pro-43 to Ser-48, Pro-51 to Tyr-69, Asn-87 to Pro-92, Pro-107 to Val-119.	H0008: 1, S0360: 8, S0356: 6, L0769: 6, L0598: 4, L0666: 4, L0750: 4, L0779: 4, L0758: 4, H0013: 3, L0803: 3, L0517: 3, L0809: 3, S0222: 2, H0592: 2, L0471: 2, H0169: 2, L0761: 2, L0764: 2, L0771: 2, L0776: 2, L0783: 2, L0664: 2, H0144: 2, H0670: 2, S0380: 2, L0748: 2, L0747: 2, L0777: 2, S0026: 2, H0624: 1, H0171: 1, S0040: 1, S6024: 1, L0002: 1, H0663: 1, L0005: 1, S6026: 1, H0351: 1, H0455: 1, H0600: 1, T0040: 1, H0244: 1, S0010: 1, H0052: 1, L0738: 1, S0316: 1, H0328: 1, H0615: 1, H0388: 1, H0135: 1, T0067: 1, H0059: 1, H0560: 1, H0647: 1, L0763: 1, L0646: 1, L0773: 1, L0662: 1,		
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								L0794: 1, L0805: 1, L0653: 1, L0659: 1, L0790: 1, H0682: 1, H0684: 1, H0672: 1, S0378: 1, S0152: 1, H0478: 1, S3012: 1, S0028: 1, L0749: 1, L0757: 1, S0196: 1, H0008: 1, H0293: 1 and H0352: 1.			
HOEBR36	1014754	502	396 - 1061	2677				T0004: 2, L0372: 1, L0521: 1, L0806: 1, S0126: 1, H0435: 1 and L0731: 1.			
HLWDZ66	1014849	503	3 - 695	2678	Asp-24 to Val-36, Lys-38 to Glu-49, Pro-80 to Ser-90, Thr-131 to Gly-138.			AR096: 5, AR033: 4, AR089: 3, AR053: 3, AR052: 3, AR060: 3, AR039: 2, AR104: 1, AR055: 1, AR061: 1 L0803: 6, L0759: 6, L0666: 4, L0805: 3, L0756: 3, L0362: 3, S0442: 2, L0646: 2, L0794: 2, L0766: 2, L0659: 2, H0144: 2, L0438: 2, H0520: 2, L0779: 2, L0596: 2, H0423: 2, L0600: 2, H0170: 1, S0114: 1, H0650: 1, S0358: 1,			

HOER36	1014869	504	3051 - 2260	2679			<p>S0444: 1, S0360: 1, H0329: 1, S0222: 1, H0497: 1, H0036: 1, S0474: 1, H0051: 1, H0687: 1, S0214: 1, H0615: 1, H0428: 1, H0622: 1, H0553: 1, H0598: 1, H0040: 1, H0634: 1, L0060: 1, T0041: 1, S0422: 1, L0773: 1, L0774: 1, L0657: 1, L0809: 1, L0789: 1, L0664: 1, S0126: 1, H0689: 1, H0435: 1, H0670: 1, L0748: 1, L0439: 1, L0731: 1, S0031: 1 and S0434: 1.</p>	<p>6p23</p>	<p>125264, 600511, 601556</p>
							<p>Ala-32 to Ala-38, Pro-55 to Glu-72, Ala-83 to Glu-109, Glu-114 to Leu-121, Thr-135 to Lys-143, Leu-149 to Lys-166, Val-173 to Ser-178, Lys-185 to Gln-195, Pro-208 to Thr-214, Gln-243 to Arg-253, Lys-259 to Lys-264.</p>		

L0783: 3, L0663: 3, H0658: 3, L0743: 3, L0744: 3, L0751: 3, L0750: 3, L0731: 3, S0026: 3, S0134: 2, H0657: 2, S0010: 2, H0544: 2, S0051: 2, H0266: 2, S0003: 2, H0622: 2, L0763: 2, L0768: 2, L0804: 2, L0774: 2, L0775: 2, L0655: 2, L0545: 2, L0665: 2, H0547: 2, H0689: 2, S0380: 2, S3012: 2, S3014: 2, L0756: 2, H0595: 2, L0588: 2, L0605: 2, L0362: 2, L0601: 2, S0424: 2, H0624: 1, H0171: 1, H0556: 1, S0212: 1, H0664: 1, L0005: 1, S0354: 1, S0360: 1, S0410: 1, H0580: 1, S0046: 1, H0393: 1, H0411: 1, H0549: 1, H0370: 1, H0559: 1, H0427: 1, H0318: 1, S0474: 1, H0085: 1, T0115: 1, H0327: 1, H0545: 1,					
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HE8OX75	1015010	505	18 - 170	2680	Ser-1 to Tyr-6.	H0046: 1, N0006: 1, H0123: 1, L0471: 1, S0388: 1, S0214: 1, H0252: 1, L0483: 1, H0553: 1, S0036: 1, H0591: 1, H0038: 1, H0040: 1, H0616: 1, T0067: 1, H0413: 1, S0386: 1, T0042: 1, H0560: 1, L0598: 1, H0529: 1, L0520: 1, L0762: 1, L0772: 1, L0646: 1, L0771: 1, L0794: 1, L0375: 1, L0805: 1, L0657: 1, L0367: 1, L0787: 1, L0666: 1, H0144: 1, S0126: 1, H0648: 1, H0672: 1, S0328: 1, H0521: 1, S0037: 1, L0754: 1, L0757: 1, H0444: 1, L0591: 1, H0667: 1, H0216: 1 and H0543: 1.		
						L0803: 4, L0745: 3, L0804: 2, L0805: 2, H0672: 2, L0742: 2, L0752: 2, L0759: 2, H0583: 1, H0369: 1, H0550: 1, H0013: 1,		

HVASI06	1015024	506	67 - 1365	2681			L0156: 1, H0085: 1, L0351: 1, H0509: 1, L0769: 1, L0776: 1, L0657: 1, L0809: 1, L0666: 1, H0684: 1, L0439: 1, L0779: 1, L0777: 1, L0753: 1, L0757: 1 and H0444: 1. L0809: 8, L0666: 8, S0436: 8, H0038: 6, S0330: 6, S0442: 5, S0440: 5, L0662: 5, L0794: 5, L0663: 5, H0040: 4, L0776: 4, L0664: 4, L0740: 4, L0754: 4, L0601: 4, S0358: 3, S0376: 3, S0444: 3, L0157: 3, L0763: 3, L0770: 3, L0803: 3, L0653: 3, L0659: 3, L0665: 3, H0658: 3, H0672: 3, H0341: 2, H0125: 2, S0408: 2, H0587: 2, H0360: 2, H0318: 2, H0263: 2, H0231: 2, H0328: 2, H0615: 2, T0023: 2, H0561: 2, L0372: 2, L0800: 2, L0768: 2, L0766: 2,		
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	L0522: 2, L0806: 2, S0374: 2, H0547: 2, H0519: 2, S0126: 2, H0659: 2, L0745: 2, L0750: 2, L0752: 2, S0434: 2, H0506: 2, H0265: 1, H0556: 1, S0040: 1, H0717: 1, H0294: 1, H0583: 1, H0657: 1, L0785: 1, H0669: 1, H0671: 1, H0661: 1, H0663: 1, H0664: 1, S0420: 1, L0005: 1, S0356: 1, S0132: 1, H0619: 1, H0351: 1, S0222: 1, S0220: 1, H0431: 1, T0039: 1, H0618: 1, T0110: 1, L0738: 1, H0570: 1, H0569: 1, L0471: 1, H0292: 1, H0039: 1, H0034: 1, H0031: 1, H0553: 1, L0055: 1, H0166: 1, H0169: 1, H0674: 1, H0068: 1, H0598: 1, S0036: 1, H0163: 1, H0591: 1, H0359: 1, S0450: 1, H0647: 1, H0646: 1, S0344: 1,					
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HDPXP07	1015059	507	3 - 242	2682	Lys-1 to Trp-11, Asn-13 to Lys-30,	L0638: 1, L0641: 1, L0643: 1, L0764: 1, L0363: 1, L0649: 1, L0774: 1, L0775: 1, L0376: 1, L0805: 1, L0527: 1, L0657: 1, L0512: 1, L0783: 1, L0382: 1, L0787: 1, L0532: 1, S0216: 1, L0438: 1, H0520: 1, H0593: 1, H0690: 1, H0682: 1, H0683: 1, H0435: 1, H0670: 1, H0660: 1, H0666: 1, H0648: 1, S0380: 1, H0518: 1, H0696: 1, S0044: 1, S0146: 1, S0406: 1, S3012: 1, S0027: 1, S0028: 1, L0746: 1, L0749: 1, L0779: 1, L0777: 1, L0731: 1, L0758: 1, S0031: 1, L0599: 1, L0608: 1, L0595: 1, H0668: 1, H0665: 1, S0276: 1, H0423: 1, S0424: 1, UNKWN: 1, L0600: 1 and H0008: 1.	L0766: 7, L0769: 4, L0747: 4, L0758: 4,
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					Leu-33 to Thr-53.	H0251: 3, L0805: 3, S0007: 2, S0414: 2, H0644: 2, H0672: 2, S0026: 2, H0686: 1, H0713: 1, H0663: 1, S0376: 1, S0360: 1, S0046: 1, L0717: 1, H0574: 1, H0486: 1, H0427: 1, H0596: 1, L0040: 1, L0738: 1, H0046: 1, H0571: 1, L0471: 1, S0051: 1, H0510: 1, S0003: 1, S0214: 1, H0674: 1, H0708: 1, H0038: 1, H0412: 1, H0646: 1, S0002: 1, L0773: 1, L0662: 1, L0767: 1, L0794: 1, L0804: 1, L0806: 1, L0776: 1, L0606: 1, L0783: 1, L0792: 1, L0665: 1, H0660: 1, H0648: 1, H0521: 1, H0555: 1, L0743: 1, L0756: 1, L0777: 1, L0755: 1, L0759: 1, S0031: 1, L0362: 1, H0542: 1 and H0543: 1.				
HE2KH02	1015093	508	1 - 615	2683		L0777: 11, L0438: 7,				

	L0759: 6, L0748: 5, H0052: 4, L0779: 4, H0013: 3, L0598: 3, L0770: 3, H0624: 2, H0717: 2, S0442: 2, S0354: 2, L0149: 2, S0046: 2, S0010: 2, H0050: 2, H0328: 2, UNKWN: 2, L0803: 2, L0776: 2, L0659: 2, H0670: 2, H0660: 2, L0439: 2, L0747: 2, L0749: 2, L0731: 2, L0594: 2, H0542: 2, H0170: 1, H0171: 1, L0785: 1, H0384: 1, S0358: 1, H0549: 1, S0222: 1, H0632: 1, S0414: 1, S0474: 1, S0049: 1, H0194: 1, H0327: 1, H0046: 1, H0051: 1, S0051: 1, T0010: 1, H0083: 1, S0003: 1, H0644: 1, H0628: 1, H0316: 1, S0036: 1, H0040: 1, H0413: 1, H0100: 1, S0150: 1, L0769: 1, L0373: 1, L0765: 1, L0662: 1, L0794: 1,				
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									L0649: 1, L0804: 1, L0805: 1, L0789: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0658: 1, H0666: 1, H0672: 1, S0380: 1, S0406: 1, L0754: 1, L0756: 1, L0758: 1, S0031: 1 and L0589: 1.			
HPSI60	1015133	509	2230 - 1901	2684	Gln-20 to Glu-27, Ser-43 to Ser-49, Ser-89 to Ala-95.				L0766: 5, L0438: 3, L0777: 3, H0090: 2, L0439: 2, L0731: 2, L0759: 2, S0114: 1, H0318: 1, L0471: 1, H0687: 1, H0509: 1, H0695: 1, L0803: 1, L0774: 1, L0775: 1, L0523: 1, L0806: 1, L0776: 1, L0809: 1, L0666: 1, H0690: 1, H0683: 1, H0659: 1, H0670: 1, L0749: 1 and L0779: 1.			
HOCOC26	1015143	510	97 - 693	2685	Pro-1 to Ser-9, Glu-48 to Gly-54, Gly-66 to Leu-71, Pro-78 to Glu-84, Ala-108 to Gln-116, Ile-167 to Asp-172,				L0748: 11, L0750: 5, L0740: 4, L0756: 4, L0758: 4, L0769: 3, L0766: 3, L0776: 3, L0779: 3, H0135: 2, L0763: 2, L0770: 2,			

					Thr-179 to His-185.	L0796: 2, L0768: 2, L0774: 2, L0783: 2, L0809: 2, L0438: 2, H0519: 2, H0672: 2, L0751: 2, L0747: 2, L0777: 2, L0755: 2, L0757: 2, H0341: 1, S0356: 1, S0442: 1, S0444: 1, S0360: 1, S0046: 1, H0431: 1, T0040: 1, H0599: 1, H0327: 1, H0046: 1, H0024: 1, H0014: 1, H0510: 1, H0688: 1, H0708: 1, H0413: 1, H0131: 1, S0150: 1, S0426: 1, L0373: 1, L0646: 1, L0771: 1, L0773: 1, L0650: 1, L0666: 1, S0374: 1, H0684: 1, H0660: 1, S0380: 1, S0406: 1, L0749: 1, L0752: 1, L0753: 1, L0588: 1, L0599: 1, H0543: 1, H0423: 1 and H0422: 1.			
HHEDC05	1015204	511	1035 - 7	2686	Pro-43 to Cys-48, Thr-75 to Gln-82.	H0695: 124, H0542: 48, H0730: 32, H0688: 27, H0735: 25, H0684: 24, H0728: 23, H0687:			

HODES86	1015304	512	89 - 421	2687	<p>23, H0744: 19, H0703: 19, H0580: 18, H0717: 17, H0685: 15, H0729: 15, H0722: 15, H0740: 13, H0733: 11, H0521: 9, H0713: 8, H0543: 8, H0494: 7, H0689: 7, H0716: 6, H0741: 6, H0696: 6, H0734: 5, H0739: 4, H0545: 4, H0699: 4, H0725: 4, H0686: 3, H0592: 3, H0587: 3, H0581: 3, H0743: 3, H0726: 3, H0690: 3, H0683: 3, H0732: 3, H0712: 3, H0742: 2, H0544: 2, H0708: 2, H0488: 2, H0724: 2, H0710: 2, H0709: 2, H0555: 2, H0171: 1, H0738: 1, S0282: 1, H0600: 1, H0586: 1, H0318: 1, H0617: 1, S0036: 1, H0561: 1, S0422: 1, S0053: 1, S0216: 1, H0723: 1, H0522: 1, S0146: 1, H0727: 1, S0260: 1 and S0436: 1.</p> <p>L0753: 3, H0615: 1</p>
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HOPJUS7	1015324	513	943 - 1164	2688	Gly-1 to Tyr-6, Lys-10 to Gly-19, Ser-46 to Lys-59.	and H0683: 1, H0585: 21, L0742: 12, L0747: 9, S0358: 8, H0052: 8, S0126: 8, H0141: 7, H0620: 7, L0748: 7, H0009: 6, H0624: 4, S0408: 4, H0427: 4, H0081: 4, S0051: 4, H0660: 4, L0750: 4, S0444: 3, H0393: 3, H0599: 3, H0618: 3, L0471: 3, H0083: 3, H0617: 3, H0708: 3, H0413: 3, H0494: 3, H0672: 3, L0740: 3, L0751: 3, L0755: 3, H0171: 2, H0294: 2, S0046: 2, H0455: 2, H0333: 2, H0156: 2, H0002: 2, H0097: 2, H0706: 2, S0049: 2, H0024: 2, H0373: 2, H0356: 2, S0364: 2, S0366: 2, H0135: 2, H0412: 2, S0440: 2, L0640: 2, L0766: 2, L0532: 2, L0754: 2, L0757: 2, S0031: 2, L0604: 2, H0506: 2, H0161: 1,		
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	H0717: 1, H0716: 1, H0583: 1, H0657: 1, S0282: 1, H0664: 1, H0402: 1, H0638: 1, S0354: 1, S0376: 1, S0360: 1, H0208: 1, S0476: 1, H0411: 1, S6022: 1, S6016: 1, H0392: 1, H0438: 1, H0600: 1, H0586: 1, H0331: 1, H0574: 1, T0109: 1, H0013: 1, H0253: 1, H0390: 1, H0581: 1, H0173: 1, H0194: 1, H0204: 1, H0231: 1, H0327: 1, H0530: 1, H0544: 1, H0123: 1, H0051: 1, H0099: 1, S0340: 1, H0428: 1, H0424: 1, H0213: 1, L0142: 1, H0628: 1, H0032: 1, H0634: 1, S0038: 1, H0100: 1, T0041: 1, T0042: 1, S0438: 1, H0641: 1, H0652: 1, S0144: 1, L0769: 1, L0638: 1, L0771: 1, L0662: 1, L0768: 1, L0653: 1, L0776: 1,	
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HVCAC71	1015343	514	2 - 1204	2689	Pro-13 to Pro-23.	L0807: 1, H0593: 1, H0682: 1, H0684: 1, H0658: 1, H0670: 1, S0330: 1, H0522: 1, H0576: 1, L0612: 1, S3014: 1, S0027: 1, L0744: 1, L0745: 1, L0731: 1, H0445: 1 and S0434: 1. H0494: 6, H0046: 5, S0028: 5, H0519: 4, H0713: 3, H0547: 3, H0458: 2, H0574: 2, H0013: 2, H0551: 2, T0042: 2, L0438: 2, H0521: 2, S3014: 2, H0423: 2, H0506: 2, H0170: 1, H0171: 1, H0716: 1, S0134: 1, H0650: 1, H0656: 1, H0341: 1, S0212: 1, S0282: 1, H0449: 1, H0638: 1, S0418: 1, S0354: 1, S0358: 1, S0045: 1, S0132: 1, S0476: 1, S0280: 1, H0599: 1, H0575: 1, T0082: 1, H0036: 1, S0010: 1, H0581: 1, H0052: 1, H0251: 1,	4q21-q25	104500, 125490, 137600, 147790, 173910, 189800, 217030, 248510, 252500, 252500, 600919, 601542
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HSXCQ55	1015360	515	6 - 1076	2690	Val-9 to Gly-18, Pro-21 to Gly-27, Gly-81 to Trp-91, Lys-120 to Gly-126, Ile-166 to Pro-172, Val-185 to Ala-192.			H0596: 1, H0530: 1, H0544: 1, H0081: 1, H0050: 1, H0014: 1, H0373: 1, S0003: 1, S0022: 1, L0194: 1, H0213: 1, H0644: 1, S0364: 1, S0366: 1, H0040: 1, H0634: 1, T0067: 1, H0268: 1, H0623: 1, L0475: 1, H0561: 1, S0150: 1, H0646: 1, L0766: 1, H0702: 1, S0374: 1, H0520: 1, H0683: 1, H0435: 1, H0660: 1, H0666: 1, H0672: 1, S0380: 1, H0696: 1, S0027: 1, S0032: 1, L0740: 1, L0747: 1, S0434: 1, S0436: 1, L0597: 1, H0667: 1, S0194: 1, H0542: 1, H0543: 1, S0424: 1 and H0293: 1.		
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Asp-207 to Ser-212, Ser-241 to Lys-248, Trp-250 to Tyr-258, Gln-287 to Asn-292.	L0659: 2, L0809: 2, L0666: 2, H0144: 2, H0658: 2, L0754: 2, L0750: 2, L0756: 2, L0777: 2, L0780: 2, H0624: 1, H0170: 1, H0171: 1, H0556: 1, S0402: 1, S0282: 1, H0645: 1, L0717: 1, H0586: 1, L0586: 1, H0427: 1, S0010: 1, H0046: 1, H0457: 1, H0050: 1, L0471: 1, S0051: 1, T0010: 1, S6028: 1, H0688: 1, H0031: 1, H0169: 1, S0036: 1, H0135: 1, H0494: 1, H0560: 1, S0438: 1, H0207: 1, H0633: 1, H0647: 1, S0142: 1, S0422: 1, L0803: 1, L0804: 1, L0776: 1, L0655: 1, S0148: 1, H0547: 1, S0126: 1, H0683: 1, H0670: 1, H0672: 1, H0539: 1, L0744: 1, L0757: 1, L0758: 1, L0759: 1, L0593: 1, H0543: 1 and H0423: 1.
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HLWDB78	1015430	516	57 - 629	2691	Lys-90 to Arg-96.	L0766: 4, L0748: 4, S0037: 2, L0749: 2, S0360: 1, H0571: 1, S0003: 1, H0553: 1, H0551: 1, S0142: 1, S0002: 1, L0794: 1, L0804: 1, H0519: 1, H0659: 1, H0660: 1, L0754: 1 and H0136: 1.		
HPCQU04	1015563	517	216 - 1232	2692		H0585: 26, H0141: 12, H0623: 6, L0766: 6, H0013: 5, H0318: 5, H0556: 4, H0657: 4, H0457: 4, L0471: 4, L0776: 4, H0659: 4, S0360: 3, H0599: 3, S0010: 3, S0003: 3, H0634: 3, T0067: 3, H0538: 3, L0598: 3, L0770: 3, L0764: 3, H0144: 3, L0751: 3, L0747: 3, L0757: 3, L0758: 3, H0445: 3, H0542: 3, T0002: 2, S0418: 2, S0376: 2, S0132: 2, S0222: 2, H0497: 2, H0559: 2, H0620: 2, H0083: 2, H0428: 2, H0124: 2, H0068: 2, H0090: 2,	4q21	104500, 125490, 147790, 173910, 252500, 252500

	H0412: 2, H0494: 2, H0561: 2, L0769: 2, L0372: 2, L0775: 2, L0375: 2, L0655: 2, L0517: 2, L0526: 2, H0520: 2, H0519: 2, S0126: 2, S0330: 2, H0521: 2, S0206: 2, L0743: 2, L0745: 2, L0752: 2, L0593: 2, L0595: 2, S0026: 2, H0543: 2, H0423: 2, H0265: 1, H0686: 1, S0342: 1, T0049: 1, S0134: 1, H0650: 1, S0116: 1, H0341: 1, H0661: 1, S0420: 1, S0356: 1, L0717: 1, S0278: 1, H0549: 1, H0550: 1, H0441: 1, H0442: 1, S0005: 1, L0623: 1, H0486: 1, T0114: 1, S0280: 1, H0575: 1, H0581: 1, H0052: 1, H0046: 1, H0123: 1, H0050: 1, H0012: 1, H0015: 1, H0239: 1, H0375: 1, S0022: 1, H0615: 1, H0030: 1, H0644: 1,					
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HDPAT52	1015574	518	1387 - 335	2693	Pro-11 to Gly-18, Glu-24 to Cys-32, Glu-34 to Met-47, Ala-55 to Glu-60, Ile-75 to Gln-81, Ser-132 to Thr-139,	H0628: 1, H0617: 1, H0674: 1, H0316: 1, S0036: 1, H0591: 1, H0040: 1, H0380: 1, H0100: 1, S0372: 1, H0509: 1, H0132: 1, S0142: 1, S0210: 1, S0002: 1, H0529: 1, L0369: 1, L0520: 1, L0763: 1, L0761: 1, L0667: 1, L0386: 1, L0657: 1, L0789: 1, L0666: 1, H0697: 1, T0068: 1, H0547: 1, H0593: 1, H0670: 1, H0539: 1, H0555: 1, H0436: 1, S3014: 1, S0028: 1, L0754: 1, L0750: 1, L0756: 1, L0755: 1, L0588: 1, L0599: 1, L0362: 1, L0361: 1, L0601: 1, S0011: 1, H0665: 1, S0424: 1 and L0600: 1.		
						L0599: 2, H0253: 1, H0581: 1, H0263: 1, H0200: 1, H0040: 1, H0623: 1, H0280: 1, H0593: 1, H0521: 1 and H0555: 1.		

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HMWTU46	1015814	520	1 - 1152	2695	Gly-4 to Gln-11, Val-87 to Asn-97, Gly-168 to Leu-178, Asp-194 to Phe-200, Phe-205 to Arg-210, Gln-292 to Gly-306, Gly-328 to Ser-342, Gly-349 to Asp-358, His-365 to Asp-379.	H0684: 1, H0660: 1, H0539: 1, H0555: 1, L0742: 1, L0786: 1, H0668: 1 and S0424: 1.	20q11.21- q11.23	
HSXCQ19	1015994	521	3 - 1100	2696	Gly-5 to Ala-25, Pro-28 to Leu-43, Pro-45 to Glu-57, Pro-64 to Trp-70, Gly-76 to Ala-90, Gly-99 to Gly-106.	L0809: 7, L0758: 7, S0007: 4, L0662: 4, L0794: 4, L0665: 4, L0439: 4, L0754: 4, H0333: 3, L0769: 3, L0761: 3, L0803: 3, H0395: 2, S0222: 2, H0124: 2, S0036: 2, L0535: 2, L0666: 2, H0658: 2, L0751: 2, L0747: 2, L0485: 2, H0716: 1, H0295: 1, H0402: 1, S0418: 1, S0442: 1, H0619: 1, H0586: 1, L0623: 1, H0486: 1, S0280: 1, L0021: 1, H0618: 1.		

HNOAG06	1016272	522	316 - 546	2697	Pro-8 to Asn-22, Thr-31 to Ser-36.	H0318: 1, H0052: 1, H0251: 1, H0123: 1, H0050: 1, H0012: 1, S0051: 1, H0179: 1, H0615: 1, T0006: 1, H0673: 1, H0135: 1, H0087: 1, H0264: 1, H0100: 1, L0763: 1, L5565: 1, L0667: 1, L0772: 1, L0644: 1, L0768: 1, L0775: 1, L0805: 1, L0655: 1, L0659: 1, L0526: 1, L0663: 1, S0052: 1, H0682: 1, H0660: 1, L0602: 1, L0743: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, L0592: 1, H0136: 1 and S0424: 1.	1q21.1	104770, 107670, 110700, 145001, 146790, 191315, 601412, 601652, 601863, 602491
						L0754: 3, L0662: 2, L0766: 2, L0805: 2, S0052: 2, L0747: 2, L0749: 2, L0731: 2, L0758: 2, L0759: 2, L0591: 2, L0599: 2, L0595: 2, S0045: 1, L0021: 1, H0053: 1, H0318: 1, H0150: 1, H0617: 1, H0040: 1,		

									H0359: 1, L0770: 1, L0521: 1, L0768: 1, L0803: 1, L0804: 1, L0659: 1, L0809: 1, L0789: 1, H0648: 1, H0651: 1, L0779: 1, L0780: 1 and L0752: 1.				
HE2KN09	1016351	523	3 - 656	2698					AR052: 27, AR033: 27, AR039: 25, AR053: 24, AR055: 19, AR089: 19, AR096: 19, AR104: 17, AR060: 14, AR061: 12 L0776: 4, L0783: 4, H0624: 3, H0559: 3, H0620: 3, H0615: 3, H0100: 3, L0769: 3, L0766: 3, L0755: 3, H0619: 2, H0081: 2, H0604: 2, L0775: 2, L0375: 2, L0659: 2, L0809: 2, H0670: 2, H0672: 2, H0539: 2, L0777: 2, L0759: 2, T0002: 1, H0295: 1, T0049: 1, H0657: 1, H0381: 1, H0661: 1, H0662: 1, S0442: 1, S0376: 1, S0360: 1, S0408: 1, H0550: 1,				

						S022: 1, H0486: 1, H0156: 1, H0599: 1, H0052: 1, H0597: 1, H0545: 1, H0565: 1, H0563: 1, H0012: 1, H0373: 1, H0266: 1, H0292: 1, H0284: 1, T0006: 1, H0181: 1, H0617: 1, H0264: 1, H0413: 1, H0059: 1, H0494: 1, H0509: 1, H0529: 1, L0763: 1, L0770: 1, L0796: 1, L0639: 1, L0646: 1, L0643: 1, L0645: 1, L0774: 1, L0806: 1, L0519: 1, L0665: 1, H0144: 1, L0438: 1, L0352: 1, H0520: 1, H0547: 1, S0126: 1, H0658: 1, S0378: 1, S0380: 1, H0521: 1, H0696: 1, H0576: 1, L0439: 1, L0747: 1, L0750: 1, L0752: 1, L0753: 1, L0731: 1 and H0543: 1.			
HISDH58	1016740	524	1678 - 248	2699	Asp-55 to Cys-73, Pro-75 to Tyr-85.	H0620: 1, H0130: 1 and H0539: 1.			
HSPSB62	1016768	525	148 - 990	2700	Leu-36 to Glu-41,	S0276: 7, H0543: 6,			

					Asp-48 to Asp-55, Ser-104 to Glu-199, Pro-202 to Trp-233, Gly-236 to Ala-247, Phe-256 to Ser-263, Glu-273 to Asp-281.	S0358: 3, H0046: 3, H0424: 3, L0748: 3, H0265: 2, H0556: 2, H0661: 2, S0420: 2, H0052: 2, H0135: 2, H0090: 2, H0433: 2, L0752: 2, L0758: 2, H0422: 2, H0657: 1, H0484: 1, H0483: 1, H0638: 1, S0360: 1, S0132: 1, H0645: 1, H0550: 1, H0391: 1, T0039: 1, H0250: 1, S0010: 1, H0009: 1, H0123: 1, H0081: 1, S0051: 1, H0428: 1, H0040: 1, S0038: 1, S0144: 1, H0547: 1, H0593: 1, H0683: 1, H0670: 1, H0518: 1, H0134: 1, S0037: 1, S3014: 1, S0027: 1, S0032: 1, L0744: 1, L0740: 1, L0746: 1, L0731: 1, H0445: 1, L0596: 1, S0011: 1 and H0542: 1.		
HE2FR37	1016939	526	109 - 729	2701	Gly-1 to Met-15, Met-60 to Gln-67, Val-76 to Gly-82,	AR060: 2, AR089: 2, AR055: 1, AR061: 1, AR096: 1, AR104: 0,		

					Leu-117 to Arg-123.	AR053: 0, AR033: 0, AR039: 0 H0328: 2, H0124: 2, L0766: 2, H0171: 1, L0005: 1, S0360: 1, H0329: 1, H0156: 1, H0615: 1, H0477: 1, S0440: 1, L0598: 1, H0547: 1, S0126: 1, S0168: 1 and H0595: 1.			
HBJHU33	1017051	527	1 - 618	2702	Met-34 to Gly-50, Asp-69 to Trp-90, Asp-99 to Lys-107, Val-164 to Thr-170.				
HCOQZ88	1017227	528	3 - 1196	2703	His-1 to Arg-12.	L0748: 38, L0747: 30, L0759: 7, S0360: 5, L0664: 5, L0779: 5, H0486: 4, S0010: 4, L0758: 4, S0222: 3, L0455: 3, S0386: 3, L0764: 3, L0771: 3, L0775: 3, L0438: 3, S0028: 3, L0749: 3, H0580: 2, H0208: 2, H0013: 2, S0280: 2, H0575: 2, H0251: 2, H0024: 2, S0214: 2, H0428: 2, H0622: 2, H0031: 2, H0644: 2, L0646: 2, L0800: 2,	6q23	107470, 107470, 107470, 121014, 142470, 156225, 164200, 164200, 207800, 601316, 601410, 601757, 602067	

	L0773: 2, L0662: 2, L0794: 2, L0804: 2, H0521: 2, L0752: 2, S0026: 2, H0583: 1, H0459: 1, S0418: 1, S0356: 1, H0675: 1, S0045: 1, H0619: 1, H0441: 1, T0039: 1, T0109: 1, H0581: 1, H0263: 1, H0596: 1, H0232: 1, H0327: 1, L0471: 1, H0057: 1, H0375: 1, H0266: 1, S0003: 1, H0688: 1, H0553: 1, H0376: 1, H0163: 1, H0090: 1, H0591: 1, H0616: 1, S0370: 1, S0382: 1, H0529: 1, L0770: 1, L0769: 1, L0638: 1, L0761: 1, L0772: 1, L0642: 1, L0767: 1, L0768: 1, L0364: 1, L0766: 1, L0606: 1, L0659: 1, L0809: 1, L0663: 1, H0144: 1, L0565: 1, L0352: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0672: 1, L0602: 1,					
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HNTSV21	1017374	529	673 - 1008	2704	Asn-41 to Lys-46, Pro-73 to Lys-92.			L0599: 2, H0265: 1, S0114: 1, S0116: 1, H0486: 1, H0031: 1, H0090: 1, H0616: 1, H0547: 1, H0670: 1, L0743: 1, L0744: 1, L0747: 1 and L0592: 1.	1		
HNORH33	1017461	530	255 - 2063	2705				S0358: 11, L0777: 9, H0046: 8, L0439: 6, L0759: 6, L0438: 5, L0662: 4, L0794: 4, L0766: 4, S0114: 3, L0803: 3, L0789: 3, H0144: 3, S0126: 3, L0748: 3, S0011: 3, S0196: 3, H0686: 2, H0250: 2, H0024: 2, H0031: 2, H0628: 2, H0056: 2, L0667: 2, L0805: 2, L0659: 2, L0809: 2, L0663: 2, L0665: 2, S0328: 2, H0521: 2, S3014: 2,			

HUFEF35	1017565	531	162 - 2159	2706		S0402: 1, S0212: 1, S0348: 1, S0356: 1, S0442: 1, S0360: 1, S0222: 1, H0431: 1, H0486: 1, H0599: 1, H0581: 1, L0471: 1, L0163: 1, H0201: 1, S0051: 1, H0375: 1, S0214: 1, H0553: 1, L0142: 1, L0143: 1, H0032: 1, L0455: 1, H0090: 1, H0591: 1, H0063: 1, H0551: 1, H0623: 1, T0041: 1, T0042: 1, H0561: 1, H0714: 1, H0509: 1, H0633: 1, L0637: 1, L0761: 1, L0800: 1, L0768: 1, L0650: 1, L0378: 1, L0655: 1, L0666: 1, H0691: 1, H0435: 1, H0658: 1, H0651: 1, L0744: 1, L0750: 1, L0757: 1, L0758: 1, L0591: 1, L0599: 1, L0362: 1, S0242: 1, H0542: 1, H0543: 1 and H0422: 1.	S0276: 34, S0360: 25, L0666: 25, L0665: 14,	12q24.2- q24.3	100650, 100650,
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HJPCG39	1017694	532	1 - 132	2707	Ser-19 to Arg-24.	L0650: 1, L0774: 1, L0651: 1, L0654: 1, L0513: 1, L0558: 1, L0782: 1, L0783: 1, L0384: 1, L0383: 1, L0382: 1, L0528: 1, L0647: 1, L0792: 1, H0144: 1, S0296: 1, T0068: 1, S0148: 1, L0438: 1, L0352: 1, H0689: 1, H0690: 1, H0682: 1, H0684: 1, H0666: 1, H0651: 1, S0380: 1, L0602: 1, H0710: 1, H0522: 1, H0694: 1, S0404: 1, H0478: 1, H0631: 1, S0028: 1, L0742: 1, L0749: 1, L0750: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, S0031: 1, H0444: 1, H0707: 1, L0591: 1, L0592: 1, H0668: 1, H0665: 1, S0192: 1, S0242: 1, H0423: 1, H0422: 1, S0424: 1, S0460: 1 and S0384: 1.	L0794: 3, L0752: 3, L0520: 2, L0803: 2,
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HISBM03	1017772	533	748 - 924	2708	Pro-2 to Leu-8, Phe-12 to Arg-20, Thr-32 to Lys-38.	L0776: 2, L0666: 2, L0665: 2, L0758: 2, L0759: 2, H0392: 1, H0581: 1, L0471: 1, H0083: 1, H0687: 1, S0003: 1, L0769: 1, L0639: 1, L0648: 1, L0375: 1, L0657: 1, L0659: 1, L0518: 1, H0659: 1 and L0777: 1.		
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HOFAA79	1017801	534	2 - 559	2709	Ala-15 to Asp-26, Phe-108 to Trp-113, Glu-167 to Tyr-175.	L0790: 1, L0792: 1, L0663: 1, H0144: 1, L0352: 1, H0547: 1, S0126: 1, H0658: 1, H0670: 1, H0696: 1, H0134: 1, S0406: 1, H0626: 1, S3012: 1, S0390: 1, L0786: 1, H0595: 1, S0434: 1, L0599: 1, H0653: 1, H0667: 1, S0192: 1, H0542: 1, H0543: 1, H0422: 1, S0042: 1 and S0424: 1.		
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HPRAJ96	1017825	535	587 - 429	2710		L0740: 21, L0748: 14, L0731: 10, L0747: 9, L0752: 9, L0757: 7, H0674: 6, L0750: 6, S0358: 5, L0768: 5, L0809: 5, H0648: 5, L0779: 5, H0318: 4, L0766: 4, L0776: 4,	1p36.1	116600, 120550, 120570, 120575, 130500, 133200, 171760, 171760,

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HBXFX71	1018032	536	1 - 123	2711		Pro-1 to Ser-6, Pro-9 to Pro-16, Pro-34 to Leu-41.	H0549: 5, L0769: 5, L0157: 4, L0742: 3, S0010: 2, H0620: 2, S0051: 2, H0617: 2, H0483: 1, H0661: 1, S0420: 1, S0045: 1, H0411: 1, H0550: 1, H0370: 1, H0438: 1, H0434: 1, H0545: 1, H0615: 1, S0112: 1, H0494: 1, L0770: 1, L0364: 1, L0783: 1, L0809: 1, L0666: 1, H0547: 1, H0682: 1, H0672: 1, L0779: 1, L0758: 1 and L0592: 1.			
HMVDD81	1018080	537	14 - 745	2712		Arg-8 to Gly-17, Gly-29 to Pro-45, Arg-62 to Leu-84, Gln-87 to Leu-96, Glu-103 to Val-114, Gln-141 to Cys-153, Ile-162 to Glu-180, Arg-186 to Lys-211, Asn-219 to Asn- 228.	H0694: 92, L0747: 14, L0766: 13, L0764: 7, S0126: 7, L0439: 7, L0758: 7, L0759: 7, H0657: 6, H0656: 6, S0358: 6, H0266: 6, L0763: 6, L0776: 6, L0655: 6, L0659: 6, L0666: 6, L0748: 6, L0777: 6, L0752: 6, H0445: 6, H0486: 5,			

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HVVDH50	1018226	538	2344 - 1004	2713	Pro-18 to Ser-40, Pro-81 to Pro-95, Pro-111 to Phe-118, Gly-127 to Ala-132, Pro-143 to Phe-151, Pro-164 to Pro-174, Pro-180 to Lys-187, Met-205 to Phe-211, Phe-228 to Pro-236, Pro-245 to Pro-255, Ala-263 to His-270, Gln-272 to Gln-280, Asn-296 to Ala-304, Gly-333 to Gly-344,	L0793: 1, L0664: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0672: 1, H0651: 1, S0378: 1, S0152: 1, S0350: 1, H0522: 1, S0013: 1, H0704: 1, H0576: 1, S0390: 1, S0027: 1, L0756: 1, L0779: 1, L0780: 1, L0755: 1, H0595: 1, L0596: 1, L0588: 1, L0589: 1, L0366: 1, S0011: 1, S0026: 1, H0665: 1, L0600: 1, H0008: 1 and H0352: 1.	7q32	180105, 190900, 222800, 246900
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Thr-353 to Ser-360, Gln-365 to Val-379, Pro-381 to Arg-390, Glu-418 to Gln-423, Leu-438 to Ser-445.	S0142: 4, S0426: 4, L0663: 4, H0435: 4, S0027: 4, L0742: 4, L0754: 4, L0758: 4, H0265: 3, H0556: 3, S0040: 3, S0212: 3, S0045: 3, H0599: 3, H0253: 3, T0048: 3, H0266: 3, H0271: 3, S0250: 3, H0494: 3, S0440: 3, H0641: 3, S0144: 3, L0646: 3, L0662: 3, L0775: 3, L0809: 3, L0749: 3, L0777: 3, L0752: 3, H0542: 3, T0002: 2, H0295: 2, H0662: 2, H0306: 2, S0356: 2, S0442: 2, S0360: 2, H0580: 2, H0393: 2, S0222: 2, H0592: 2, H0559: 2, T0039: 2, H0013: 2, H0250: 2, S0280: 2, H0575: 2, H0581: 2, H0597: 2, H0544: 2, H0545: 2, H0046: 2, H0179: 2, H0252: 2, H0039: 2, H0030: 2, H0628: 2, H0617: 2, H0124: 2,
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HNNBT57	1018243	539	377 - 3	2714	Pro-9 to Ala-24, Thr-52 to Gly-61, Thr-64 to Ser-70.		H0677: 7			
HCONJ11	1018459	540	1937 - 1125	2715	His-11 to Ala-17, Pro-29 to Ser-35, Asn-59 to Asp-64, Lys-67 to Leu-72, Gln-101 to Asp-110, Pro-157 to Lys-176, Gln-181 to Lys-210, Gln-213 to Lys-228, Pro-253 to Asn-264.	H0581: 3, H0615: 3, L0766: 3, L0777: 3, H0657: 2, H0486: 2, H0013: 2, H0641: 2, L0803: 2, S0011: 2, H0543: 2, H0423: 2, H0556: 1, H0341: 1, S0420: 1, S0356: 1, H0580: 1, H0586: 1, H0575: 1, S0049: 1, H0263: 1, H0545: 1, H0150: 1, H0041: 1, H0009: 1, L0471: 1, H0014: 1, S0051: 1, S0003: 1, H0328: 1, H0622: 1, H0032: 1, H0674: 1, H0038: 1,	10q23	174900, 236730, 601493		

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HCQAW68	1018501	541	1652 - 1212	2716	Asn-19 to Ile-26, Val-44 to Lys-54, Arg-70 to Val-83, Arg-95 to Thr-100, Arg-136 to Arg-141.	L0748: 4, L0777: 4, L0756: 2, H0263: 1, H0046: 1, H0023: 1, H0188: 1, L0761: 1, L0662: 1, L0526: 1, L0790: 1, L0747: 1 and L0758: 1.				
HVVCY25	1018772	542	1170 - 355	2717	Ser-7 to Trp-12, Pro-28 to Gly-58, Lys-212 to Cys-218, Glu-229 to Gly-235.	H0547: 10, H0542: 10, H0266: 9, L0794: 7, S0358: 6, H0559: 6, L0803: 6, L0666: 6, L0601: 6, H0013: 5,	19p13.3- p13.2	108725, 120700, 133171, 136836, 143890,		

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HCOMB65	1018802	543	233 - 1249	2718				H0068: 1, H0090: 1, H0591: 1, H0063: 1, H0412: 1, H0396: 1, H0561: 1, S0372: 1, H0509: 1, S0422: 1, L0770: 1, L0637: 1, L0667: 1, L0646: 1, L0800: 1, L0641: 1, L0764: 1, L0773: 1, L0662: 1, L0363: 1, L0768: 1, L0387: 1, L0804: 1, L0378: 1, L0806: 1, L0655: 1, L0657: 1, L0636: 1, S0216: 1, H0698: 1, L0438: 1, H0593: 1, H0670: 1, H0660: 1, H0648: 1, H0651: 1, S0328: 1, S0378: 1, H0518: 1, H0704: 1, H0134: 1, H0478: 1, S3014: 1, S0028: 1, L0748: 1, L0755: 1, L0592: 1, S0011: 1, H0665: 1, H0667: 1 and S0242: 1. L0662: 14, L0659: 11, L0665: 11, L0747: 11, S0250: 9, H0575: 7, L0439: 7, L0754: 6,	22q13.1	103050, 103050, 124030, 124030,
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HVVCF30	1018907	544	50 - 319	2719	Pro-13 to Ala-20, Pro-53 to Ser-61.						
HODBV21	1018943	545	1186 - 476	2720				H0328: 2			
HCHMD81	1019326	546	1 - 1005	2721	Ala-4 to Ala-11.			L0758: 9, L0770: 7, H0620: 6, L0731: 6, L0747: 5, L0777: 5, H0265: 4, L0771: 4, L0748: 4, L0759: 4, L0769: 3, L0662: 3, L0774: 3, L0526: 3, L0439: 3, L0751: 3, L0750: 3, S0358: 2, H0424: 2, S0144: 2, L0520: 2, L0764: 2, L0364: 2, L0776: 2, L0809: 2, L0664: 2, L0754: 2, S0436: 2, L0588: 2, L0601: 2, H0556: 1, H0685: 1, S0040: 1, S6024: 1, H0341: 1, H0484: 1, H0661: 1, H0306: 1,			

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HAZAR95	1019338	547	11 - 1192	2722	Arg-63 to Arg-77, Glu-186 to Trp-192, Ile-222 to Tyr-228, Lys-284 to Glu-293, Asn-324 to Ser-329, Pro-375 to Lys-388.	L0666: 13, L0665: 13, L0588: 12, L0601: 9, S0358: 8, L0664: 8, S0360: 7, L0471: 7, L0657: 7, L0659: 7, L0748: 7, H0415: 6, S0214: 6, L0520: 6, L0372: 6, L0803: 6, L0375: 6, L0655: 6, H0659: 6, L0608: 6, L0362: 6, L0361: 6, S0376: 5, L0663: 5, L0439: 5, T0049: 4, H0581: 4, L0646: 4, L0804: 4, L0809: 4, S0328: 4, L0747: 4, L0749: 4, L0755: 4, L0731: 4, L0591: 4, L0604: 4, L0595: 4, H0542: 4, H0662: 3, H0545: 3, H0687: 3, H0100: 3, H0509: 3, H0529: 3, L0763: 3, L0764: 3, L0662: 3, L0794: 3, S0330: 3, L0740: 3, H0445: 3, L0600: 3, H0265: 2, H0661: 2, S0418: 2, H0156: 2, H0318: 2, H0172: 2, H0620: 2,	12q23	124200, 147440, 160781, 235800, 600175
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HMWFS1	1019409	548	65 - 484	2723		L0776: 3, H0341: 2, L0005: 2, T0023: 2, L0766: 2, L0527: 2, L0659: 2, L0809: 2, L0665: 2, L0748: 2, L0740: 2, L0747: 2, L0731: 2, L0362: 2, S0114: 1, H0305: 1, S0376: 1, H0393: 1, H0574: 1, H0013: 1, H0263: 1, H0266: 1, H0688: 1, L0483: 1.					

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HE8SD82	1019585	549	1 - 570	2724	Asn-1 to Pro-7, Glu-33 to Ser-40, Pro-54 to Thr-63, Leu-82 to Arg-106, Gly-109 to Asn-119, Glu-145 to Val-150, Lys-161 to Gln-168, Arg-170 to Phe-175, Thr-177 to Tyr-184.			H0031: 4, S0007: 2, H0244: 2, S0010: 2, H0194: 2, H0553: 2, S0036: 2, H0040: 2, H0529: 2, L0005: 1, S0356: 1, H0676: 1, H0411: 1, S0222: 1, S6014: 1, H0587: 1, H0497: 1, H0013: 1, H0575: 1, H0327: 1, L0471: 1, H0024: 1, L0143: 1, H0038: 1, H0494: 1, H0538: 1, H0660: 1, H0539: 1, H0521: 1, H0555: 1 and H0136: 1.			
HSPSN08	1019608	550	77 - 1120	2725	Pro-25 to Glu-54, Ser-66 to Glu-71, Gly-86 to Trp-92, Arg-104 to Asn-109,			H0683: 11, H0617: 3, L0766: 2, H0686: 1, H0254: 1, H0255: 1, L0021: 1, H0123: 1,			

						Asn-133 to Asn-138, Thr-153 to Ser-160, Asn-269 to Glu-277, Leu-290 to Tyr-297.	H0012: 1, S0051: 1, H0083: 1, H0039: 1, T0006: 1, H0413: 1, L0794: 1, L0809: 1, L0748: 1 and S0026: 1.		
HVCAH24	1019749	551	97 - 468	2726		Arg-1 to Arg-8, Gly-30 to Gln-40, Phe-50 to Asp-58, Leu-97 to Ser-112.	H0156: 2, H0624: 1, H0171: 1, H0686: 1, H0656: 1, H0574: 1, H0486: 1, S0316: 1, H0622: 1, H0038: 1, S0150: 1, H0520: 1, H0547: 1, H0658: 1, H0666: 1, H0521: 1 and S0028: 1.		
HCEBF54	1019777	552	400 - 840	2727		Pro-89 to Leu-101.	AR104: 2, AR061: 1, AR089: 1, AR033: 0, AR060: 0, AR096: 0, AR053: 0, AR039: 0, AR055: 0, AR052: 0 L0794: 2, L0803: 2, L0655: 2, L0665: 2, H0684: 2, L0754: 2, L0747: 2, H0686: 1, L0470: 1, H0662: 1, H0125: 1, S0360: 1, L0021: 1, H0052: 1, H0085: 1, H0597: 1, H0009: 1, S0362: 1, H0644: 1, H0673: 1, L0060: 1, H0560: 1,		

						L0638: 1, L0761: 1, L0373: 1, L0765: 1, L0774: 1, L0805: 1, L0809: 1, L0790: 1, L0666: 1, L0664: 1, H0689: 1, H0682: 1, H0660: 1, L0742: 1, L0748: 1, S0434: 1, L0592: 1, L0608: 1, L0601: 1, H0542: 1 and H0423: 1.			
HPQAD21	1019869	553	176 - 271	2728		S0136: 115, L0803: 9, S0026: 9, L0731: 8, H0624: 6, S0418: 6, S0358: 6, L0805: 6, H0619: 5, L0666: 5, L0439: 5, L0754: 5, L0756: 5, H0170: 4, S0360: 4, H0553: 4, L0662: 4, H0547: 4, L0750: 4, L0779: 4, H0351: 3, H0486: 3, H0046: 3, H0050: 3, L0471: 3, H0266: 3, H0623: 3, L0770: 3, H0144: 3, H0520: 3, S0380: 3, S0040: 2, H0295: 2, H0661: 2, S0420: 2, S0376: 2, H0722: 2, H0369: 2,			

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HJPCF71	1019892	554	219 - 830	2729	Asp-41 to Gly-56.	H0111: 1, H0628: 1, S0364: 1, H0135: 1, H0616: 1, H0551: 1, H0268: 1, H0100: 1, H0494: 1, H0652: 1, S0210: 1, L0763: 1, L5566: 1, L0646: 1, L0800: 1, L0764: 1, L0771: 1, L0768: 1, L0649: 1, L0804: 1, L0775: 1, L0806: 1, L0527: 1, L0636: 1, L0783: 1, L0790: 1, S0296: 1, H0693: 1, H0519: 1, H0690: 1, H0682: 1, H0684: 1, H0648: 1, H0672: 1, S0454: 1, S0013: 1, H0626: 1, H0627: 1, S0028: 1, L0744: 1, L0777: 1, L0755: 1, L0757: 1, L0758: 1, L0759: 1, S0434: 1, S0436: 1, L0592: 1, H0667: 1, S0194: 1 and H0506: 1.		
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HVCAE76	1019942	555	99 - 2111	2730		L0750: 2, S0114: 1, H0656: 1, S0212: 1, H0663: 1, H0586: 1, H0546: 1, H0024: 1, H0083: 1, H0510: 1, H0428: 1, H0038: 1, H0560: 1, H0646: 1, L0763: 1, L0773: 1, L0662: 1, L0774: 1, L0378: 1, L0661: 1, L0384: 1, L0789: 1, L0666: 1, L0438: 1, S0028: 1, L0747: 1, L0756: 1, L0758: 1, H0423: 1 and S0460: 1.		
						L0779: 7, L0439: 5, H0624: 4, L0766: 4, L0438: 4, H0657: 3, L0662: 3, L0657: 3, L0666: 3, S0360: 2, L0764: 2, L0655: 2, L0532: 2, L0664: 2, S0428: 2, H0670: 2, L0777: 2, L0755: 2, L0731: 2, H0423: 2, L0465: 2, H0170: 1, L0002: 1, H0583: 1, S0400: 1, H0589: 1, L0481: 1, S0354: 1, S0358: 1, S0408: 1,		

HOCMH14	1020007	556	1 - 1485	2731	His-3 to Trp-8, Glu-16 to Gly-23, Tyr-47 to Gly-56.	H0351: 1, H0411: 1, H0550: 1, H0333: 1, S0280: 1, H0098: 1, H0122: 1, H0318: 1, H0581: 1, H0263: 1, H0457: 1, H0566: 1, H0050: 1, S0050: 1, H0051: 1, H0188: 1, H0687: 1, H0615: 1, H0039: 1, L0055: 1, H0598: 1, H0040: 1, S0440: 1, H0529: 1, L0761: 1, L0667: 1, L0363: 1, L0768: 1, L0649: 1, L0804: 1, L0776: 1, L0661: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, L0352: 1, H0547: 1, H0690: 1, H0666: 1, H0648: 1, H0555: 1, H0436: 1, S0390: 1, S0028: 1, L0744: 1, L0740: 1, L0747: 1, L0752: 1, L0753: 1, L0759: 1, S0031: 1 and L0605: 1.	H0457: 7, L0743: 5, L0439: 5, L0751: 5, L0752: 5, L0731: 4.
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					Ala-88 to Cys-93, Ala-108 to Ser-139, Ser-145 to Ser-151, Asp-154 to Ala-164, Pro-168 to Thr-189, Pro-196 to Ser-203, Pro-229 to Ala-235, Thr-255 to Glu-261, Pro-271 to Pro-276, Pro-289 to Asn-310, Pro-318 to Tyr-329, Arg-334 to Arg-345, Arg-347 to Thr-356, Lys-373 to Arg-391, Glu-396 to Pro-414.	H0618: 3, H0253: 3, H0545: 3, L0662: 3, H0689: 3, L0748: 3, L0777: 3, L0758: 3, L0785: 2, H0692: 2, H0662: 2, H0550: 2, S0049: 2, L0770: 2, L0764: 2, L0659: 2, H0670: 2, L0779: 2, L0757: 2, L0759: 2, S0434: 2, H0225: 1, S0218: 1, H0650: 1, H0656: 1, L0426: 1, S0212: 1, S0442: 1, H0489: 1, H0580: 1, S0046: 1, S0132: 1, S0476: 1, H0549: 1, H0587: 1, H0333: 1, H0559: 1, H0427: 1, L0021: 1, H0599: 1, H0274: 1, H0581: 1, H0421: 1, H0052: 1, H0231: 1, L0157: 1, H0566: 1, H0123: 1, T0010: 1, H0408: 1, H0355: 1, H0266: 1, H0271: 1, H0687: 1, H0163: 1, H0087: 1, H0494: 1, H0359: 1, S0344: 1, L0371: 1,			
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HPDRZ03	1020130	557	122 - 751	2732	Asp-7 to Ala-15, Pro-34 to Ile-60, Gln-110 to Asn-117.	L0637: 1, L0761: 1, L0646: 1, L0773: 1, L0363: 1, L0774: 1, L0375: 1, L0805: 1, L0658: 1, L0384: 1, L0543: 1, L0666: 1, L0663: 1, H0547: 1, H0593: 1, H0684: 1, H0660: 1, S0380: 1, H0710: 1, S0152: 1, H0521: 1, H0696: 1, H0134: 1, S0406: 1, H0436: 1, S0432: 1, L0744: 1, L0740: 1, S0436: 1, L0593: 1, H0665: 1 and H0422: 1.		
						L0777: 4, S0358: 3, H0486: 3, L0750: 3, L0779: 3, L0752: 3, S0412: 3, S0134: 2, H0013: 2, L0766: 2, L0803: 2, H0519: 2, H0658: 2, L0599: 2, L0604: 2, S0192: 2, T0002: 1, S0342: 1, S0212: 1, H0661: 1, H0619: 1, H0411: 1, H0632: 1, T0114: 1, H0575: 1, H0318: 1, T0110: 1, H0544: 1,		

HOCPO73	1020180	558	3745 - 2963	2733				L00457: 1, H0328: 1, L0055: 1, H0169: 1, T0067: 1, S0422: 1, L0763: 1, L0773: 1, L0363: 1, L0804: 1, L0806: 1, L0663: 1, H0648: 1, S0152: 1, L0751: 1, L0756: 1, L0755: 1, L0731: 1, L0758: 1, L0593: 1, L0594: 1, H0665: 1, H0543: 1 and S0424: 1.		
								L0777: 7, L0759: 5, L0638: 3, L0766: 3, L0804: 3, L0663: 3, L0439: 3, H0657: 2, L0055: 2, L0666: 2, H0660: 2, L0604: 2, L0615: 1, S0358: 1, L0471: 1, H0628: 1, H0038: 1, S0344: 1, H0529: 1, L0761: 1, L0630: 1, L0646: 1, L0764: 1, L0364: 1, L0803: 1, L0805: 1, L0655: 1, L0809: 1, L0790: 1, L0532: 1, H0689: 1, H0435: 1, H0658: 1, S0330: 1, H0521: 1, H0436: 1,		

						L0740: 1, L0749: 1, L0750: 1, L0757: 1, L0594: 1, L0595: 1 and S0026: 1.			
HNKDT10	1020832	559	2 - 535	2734		S0330: 109, S0328: 51, S0446: 12, L0659: 5, L0666: 4, L0779: 4, S0456: 4, L0717: 3, L0775: 3, H0593: 3, L0748: 3, L0439: 3, L0747: 3, L0749: 3, L0758: 3, L0021: 2, H0615: 2, L0662: 2, L0766: 2, L0803: 2, L0663: 2, L0665: 2, S0310: 2, H0658: 2, H0648: 2, S0406: 2, L0740: 2, L0731: 2, L0595: 2, H0624: 1, H0662: 1, S0376: 1, H0351: 1, H0411: 1, H0587: 1, L0022: 1, L0105: 1, H0688: 1, H0617: 1, L0455: 1, H0494: 1, S0352: 1, S0464: 1, S0440: 1, S0422: 1, L0772: 1, L0646: 1, L0771: 1, L0773: 1, L0649: 1, L5569: 1, L0499: 1,			

								L0375: 1, L0651: 1, L0784: 1, L0806: 1, L0509: 1, L0655: 1, L0657: 1, L0513: 1, L0809: 1, L0545: 1, L0790: 1, L0791: 1, L0792: 1, L0664: 1, H0144: 1, H0519: 1, S0126: 1, S0404: 1, H0555: 1, L0751: 1, L0777: 1, S0436: 1 and L0592: 1.			
HWHGO25	1020841	560	3 - 113	2735	Gly-7 to Leu-15, Pro-17 to His-29.			L0747: 5, L0805: 3, L0761: 2, L0803: 2, L0775: 2, H0658: 2, L0758: 2, S0298: 1, H0586: 1, H0597: 1, L0646: 1, L0776: 1, L0518: 1, L0519: 1, L0528: 1, L0529: 1, L0790: 1, L0666: 1, H0690: 1, H0521: 1, L0749: 1 and L0777: 1.			
HWMNE31	1020852	561	157 - 681	2736	Thr-15 to Trp-23, Ala-44 to Gln-51, Lys-62 to Arg-70, Asp-102 to Lys-114, Val-116 to Ala-148, Phe-151 to Glu-163.			L0803: 13, L0766: 10, L0731: 8, L0751: 6, L0601: 6, L0756: 5, L0764: 4, L0789: 4, S0136: 4, H0436: 4, L0777: 4, L0596: 4, H0556: 3, H0580: 3,			

	H0328: 3, H0615: 3, H0090: 3, L0775: 3, L0666: 3, L0747: 3, L0755: 3, L0758: 3, S0412: 3, H0341: 2, S0376: 2, H0393: 2, H0549: 2, H0431: 2, H0587: 2, H0013: 2, L0021: 2, H0597: 2, H0014: 2, H0644: 2, L0800: 2, L0773: 2, L0662: 2, L0784: 2, L0805: 2, L0438: 2, H0520: 2, H0648: 2, L0748: 2, L0439: 2, L0740: 2, L0604: 2, H0265: 1, H0685: 1, S0114: 1, H0657: 1, H0656: 1, H0661: 1, H0663: 1, H0402: 1, S0358: 1, S0444: 1, S0360: 1, S0045: 1, H0351: 1, L0394: 1, S0222: 1, H0333: 1, H0575: 1, H0318: 1, H0421: 1, H0052: 1, T0103: 1, H0570: 1, H0024: 1, H0083: 1, H0067: 1, H0188: 1, S0003: 1, S0214: 1,					
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HUSYJ75	1020878	562	1 - 420	2737				H0622: 1, H0673: 1, L0456: 1, H0163: 1, H0591: 1, H0040: 1, H0551: 1, T0067: 1, H0412: 1, H0560: 1, H0647: 1, S0142: 1, S0208: 1, S0422: 1, H0695: 1, L0369: 1, L0520: 1, L0763: 1, L0770: 1, L0638: 1, L0771: 1, L0794: 1, L0774: 1, L0651: 1, L0378: 1, L0776: 1, L0657: 1, L0809: 1, L0532: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0725: 1, H0659: 1, H0666: 1, H0518: 1, H0521: 1, S0013: 1, H0696: 1, S0406: 1, S3014: 1, S0027: 1, L0754: 1, L0749: 1, L0752: 1, L0757: 1, S0260: 1, L0592: 1, S0026: 1, S0276: 1, H0542: 1, H0423: 1, H0422: 1 and H0721: 1.		
								H0484: 35, L0751: 15, L0758: 12, H0483: 10,		

L0743: 9, H0370: 8, S0442: 7, S0126: 7, S0436: 7, S0420: 6, L0766: 6, H0670: 6, H0672: 6, L0744: 6, L0779: 6, S0434: 6, H0661: 5, S0476: 5, H0617: 5, H0660: 5, S0027: 5, L0747: 5, L0592: 5, S0040: 4, H0716: 4, H0662: 4, S0140: 4, H0545: 4, H0150: 4, S0440: 4, H0641: 4, H0689: 4, H0682: 4, H0684: 4, S0380: 4, S0406: 4, S3014: 4, S0356: 3, H0729: 3, H0733: 3, S0007: 3, H0639: 3, H0123: 3, H0424: 3, S0366: 3, H0087: 3, H0647: 3, L0769: 3, L0775: 3, H0690: 3, H0696: 3, S3012: 3, L0740: 3, H0543: 3, L0600: 3, H0713: 2, H0663: 2, S0376: 2, S0444: 2, S0408: 2, S0046: 2, H0619: 2, S0300: 2, S0278: 2,					
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	H0592: 2, H0052: 2, L0157: 2, H0688: 2, H0606: 2, H0674: 2, H0059: 2, H0100: 2, L0763: 2, L0771: 2, L0649: 2, L0633: 2, L0383: 2, H0520: 2, H0435: 2, H0658: 2, H0648: 2, H0436: 2, S0390: 2, L0748: 2, L0777: 2, L0731: 2, L0757: 2, L0759: 2, S0260: 2, H0686: 1, S6024: 1, H0294: 1, S0134: 1, H0657: 1, H0656: 1, S0180: 1, S0212: 1, H0254: 1, S0418: 1, S0354: 1, S0410: 1, H0722: 1, S0045: 1, S0132: 1, H0393: 1, H0550: 1, H0587: 1, H0333: 1, T0109: 1, H0101: 1, H0427: 1, H0575: 1, H0706: 1, T0048: 1, S0474: 1, H0581: 1, S0049: 1, H0309: 1, H0597: 1, H0231: 1, H0009: 1, H0178: 1, H0567: 1, H0024: 1,					
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HSDFS07	1020904	563	2 - 1018	2738	Glu-1 to Asn-6, Glu-14 to Leu-19, Pro-22 to Ile-30, Ser-32 to Asp-40,	H0051: 1, H0099: 1, H0594: 1, H0188: 1, S0214: 1, H0604: 1, H0417: 1, H0181: 1, H0673: 1, H0551: 1, H0412: 1, H0413: 1, H0494: 1, H0334: 1, S0150: 1, S0426: 1, H0529: 1, L0373: 1, L0374: 1, L0764: 1, L0385: 1, L0774: 1, L0375: 1, L0654: 1, L0657: 1, L0659: 1, L5623: 1, L0368: 1, L0665: 1, H0702: 1, H0519: 1, H0683: 1, S0328: 1, S0330: 1, H0539: 1, S0378: 1, H0522: 1, S0037: 1, S0028: 1, S0206: 1, L0754: 1, L0750: 1, H0445: 1, H0595: 1, L0591: 1, L0361: 1, L0601: 1, S0192: 1, H0542: 1, H0423: 1 and S0456: 1.		
						L0439: 5, L0777: 4, H0244: 2, S0010: 2, S0386: 2, L0764: 2, L0776: 2, L0809: 2,		

					Ser-44 to Gln-53.	H0519: 2, L0756: 2, L0780: 2, H0369: 1, S0222: 1, S0346: 1, H0050: 1, H0428: 1, L0194: 1, L0455: 1, H0494: 1, L0769: 1, L0806: 1, L0807: 1, L0664: 1, H0520: 1, L0747: 1, L0779: 1, L0759: 1, S0031: 1 and L0592: 1.		
HCOPC09	1021208	564	620 - 378	2739	Glu-49 to Asn-62.	L0764: 3, S0360: 2, H0331: 2, H0575: 2, L0769: 2, H0670: 2, L0747: 2, L0777: 2, L0601: 2, S0358: 1, H0455: 1, H0492: 1, L0021: 1, L0763: 1, L0662: 1, L0803: 1, L0774: 1, L0775: 1, L0809: 1, H0683: 1, H0522: 1, L0743: 1, L0362: 1 and H0422: 1.		
HVVBT22	1021323	565	811 - 2	2740	Pro-5 to Lys-15, Asn-31 to Ala-38, Asp-57 to Arg-64, Ala-75 to Asp-90, Gln-98 to Gly-123, Arg-125 to Gly-142, Met-155 to Gly-160.	H0424: 5, L0766: 3, S0222: 2, S0214: 2, S0422: 2, S0126: 2, S0330: 2, L0759: 2, L0362: 2, L0361: 2, H0653: 2, H0220: 1, H0656: 1, H0341: 1,		

					Leu-162 to Pro-182, H0449: 1, S0376: 1, Arg-187 to Met-192, S0045: 1, H0351: 1, Ser-199 to Asp-219, H0587: 1, H0497: 1, Pro-224 to Pro-253, S0010: 1, L0471: 1, H0373: 1, H0083: 1, H0266: 1, L0055: 1, H0163: 1, H0591: 1, H0551: 1, H0366: 1, H0509: 1, H0538: 1, L0770: 1, L0772: 1, L0381: 1, L0775: 1, L0653: 1, L0518: 1, L0665: 1, H0144: 1, H0520: 1, H0547: 1, H0689: 1, H0672: 1, S0328: 1, H0539: 1, H0696: 1, L0747: 1, L0752: 1, L0591: 1, L0592: 1, H0216: 1 and S0396: 1.		
HAMFW66	1021327	566	8 - 988	2741	His-3 to Phe-9, AR053: 3, AR052: 3, Asn-176 to Thr-184, AR096: 2, AR033: 2, Glu-217 to Lys-225, AR089: 2, AR055: 2, Lys-263 to Asp-268, AR104: 1, AR060: 1, AR061: 0, AR039: 0, L0754: 12, S0410: 10, L0766: 9, L0591: 7, L0748: 4, L0752: 4, H0423: 4, H0556: 3, S0360: 3, L0646: 3,		

[illegible]

							L0792: 1, L0793: 1, H0519: 1, H0682: 1, H0648: 1, S0330: 1, S0152: 1, S0406: 1, L0750: 1, L0779: 1, L0757: 1, L0759: 1, L0480: 1, H0542: 1 and H0506: 1.			
HPMBW86	1021661	567	3 - 179	2742	Leu-2 to Gly-15, Val-31 to Gly-40, Gly-45 to Ala-51.		H0341: 1, S0222: 1, H0156: 1, H0052: 1, H0031: 1, L0766: 1, H0658: 1, H0670: 1 and L0612: 1.			
HOFMK02	1021666	568	138 - 230	2743	Thr-24 to Leu-29.		H0415: 2 and H0486: 1.	11p15	108985, 186921, 602092	
HOUHK71	1021682	569	311 - 370	2744	Arg-11 to Trp-20.		L0755: 4, H0638: 2, S0342: 1, H0101: 1, H0457: 1, H0051: 1, L0768: 1, L0803: 1, L0650: 1, L0806: 1, L0518: 1, H0689: 1, H0648: 1, L0756: 1 and L0759: 1.			
HCOOW23	1021759	570	54 - 800	2745	Thr-10 to Arg-16, Arg-21 to Ser-31, Asn-97 to Arg-102, Ile-170 to Ser-175, Thr-207 to Gly-213.					
HACMT02	1021794	571	272 - 3	2746			H0685: 2			

HISDS67	1022018	572	2322 - 1756	2747	Gln-4 to Ala-17, Ala-56 to Gln-61, Cys-166 to Ala-182.	L0754: 8, H0553: 4, L0770: 4, L0794: 4, H0615: 3, L0769: 3, L0803: 3, L0439: 3, L0777: 3, L0752: 3, H0052: 2, L0637: 2, L0768: 2, L0805: 2, L0659: 2, L0666: 2, L0664: 2, H0547: 2, H0593: 2, H0682: 2, H0539: 2, H0521: 2, L0744: 2, L0757: 2, L0604: 2, L0601: 2, H0624: 1, H0657: 1, H0656: 1, S0212: 1, H0254: 1, H0662: 1, L0005: 1, S0045: 1, H0619: 1, H0550: 1, H0592: 1, H0013: 1, H0036: 1, H0618: 1, H0620: 1, H0023: 1, S0051: 1, H0188: 1, H0028: 1, H0428: 1, T0006: 1, H0213: 1, L0455: 1, H0135: 1, H0038: 1, H0616: 1, H0264: 1, H0413: 1, T0069: 1, S0038: 1, H0100: 1, L0763: 1, L0638: 1, L5565: 1,		
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HOVAA59	1022037	573	2892 - 1309	2748	Pro-1 to Gly-10, Pro-20 to Gly-34, Pro-36 to Gly-45, Ala-51 to Pro-65, Val-78 to Arg-83, Gln-89 to Gly-98, Lys-114 to Val-119, Arg-158 to Ala-164, Thr-306 to Lys-313.	L0761: 1, L0667: 1, L0804: 1, L0650: 1, L0375: 1, L0776: 1, L0807: 1, L0809: 1, L0519: 1, L0663: 1, L0665: 1, H0520: 1, S0126: 1, H0684: 1, H0435: 1, H0659: 1, H0648: 1, S0190: 1, S0404: 1, H0555: 1, L0741: 1, L0751: 1, L0747: 1, L0753: 1 and L0758: 1.		
						L0601: 4, H0617: 3, L0794: 2, L0629: 2, L0657: 2, L0604: 2, T0049: 1, S0218: 1, L0785: 1, S0442: 1, H0733: 1, H0411: 1, T0109: 1, H0428: 1, H0673: 1, S0366: 1, H0040: 1, H0616: 1, L0763: 1, L0375: 1, L0805: 1, L0658: 1, H0593: 1, H0658: 1, H0672: 1, L0743: 1, L0744: 1, L0748: 1, L0740: 1, L0751: 1, L0754: 1, L0750: 1, L0596: 1, L0485: 1 and		

HOCPL72	1022059	574	2 - 1099	2749	Pro-1 to Glu-14, Pro-26 to Val-33, Tyr-167 to Tyr-174, Pro-188 to Ser-196.	H0721: 1, L0766: 3, H0457: 2, H0706: 1, H0015: 1, H0373: 1, H0266: 1, H0553: 1, H0551: 1, H0509: 1, L0761: 1, L0665: 1, H0144: 1, H0689: 1, H0660: 1 and S0328: 1.			
HCOMM05	1022082	575	1 - 840	2750	Gln-19 to Asp-38, Pro-46 to Thr-55, Leu-96 to Gly-104, Ala-114 to Ala-119, Gln-125 to Trp-131, Pro-133 to Pro-141, Phe-144 to Glu-150, Glu-180 to Val-185, Glu-192 to Glu-197, Glu-254 to Leu-262, Met-272 to Ser-280.	AR089: 1, AR096: 1, AR061: 1, AR060: 1, AR033: 1, AR055: 0, AR052: 0, AR039: 0, AR104: 0 L0508: 9, H0620: 7, L0774: 6, L0509: 6, S0408: 5, L0750: 5, L0601: 5, L0515: 4, L0512: 4, H0594: 3, L0805: 3, L0514: 3, L0511: 3, H0670: 3, L0755: 3, H0556: 2, H0686: 2, S0358: 2, S0444: 2, H0199: 2, H0181: 2, H0617: 2, H0494: 2, L0505: 2, L0502: 2, L0769: 2, L0803: 2, L0809: 2, L0528: 2, L0663: 2, L0752: 2, H0657: 1,			

HLYDC86	1022162	576	3 - 947	2751	Pro-39 to Arg-45, Arg-52 to Ile-60, Glu-87 to Cys-96, Thr-108 to Ser-114, Thr-121 to Glu-128,	H0255: 1, S0420: 1, S0442: 1, S0360: 1, H0549: 1, H0586: 1, L0021: 1, H0036: 1, H0052: 1, H0597: 1, H0086: 1, H0012: 1, S0336: 1, H0606: 1, H0124: 1, L0504: 1, L0763: 1, L0627: 1, L0373: 1, L0764: 1, L0499: 1, L0498: 1, L0497: 1, L0376: 1, L0653: 1, L0493: 1, L0510: 1, L0513: 1, L0384: 1, L0789: 1, L0666: 1, L0665: 1, H0689: 1, H0660: 1, H0672: 1, S0328: 1, S0330: 1, S0454: 1, S0406: 1, S0432: 1, L0754: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, L0731: 1, L0759: 1, S0434: 1 and H0506: 1.	14q24.3	104311, 109150, 182600, 245200, 601208
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						Met-133 to Thr-141, Asn-154 to Ala-169, Glu-174 to His-179, Gln-205 to Gln-213, Pro-222 to Phe-231, Ser-259 to Phe-265, Leu-282 to Ser-288.	L0747: 1.			
HTLEP21	1022167	577	92 - 457	2752			H0253: 1 and L0767: 1.			
HVCAS77	1022313	578	170 - 1072	2753		Glu-7 to Leu-18, Glu-75 to Arg-80, Gln-152 to Gln-157, Gln-202 to Lys-219, Ser-259 to Gly-266, Glu-277 to His-287.	L0766: 7, L0769: 6, S0418: 4, L0747: 4, S0424: 3, H0341: 2, S0278: 2, L0471: 2, H0083: 2, H0538: 2, L0770: 2, L0771: 2, L0775: 2, L0809: 2, H0520: 2, L0744: 2, L0754: 2, L0777: 2, L0759: 2, L0597: 2, S0026: 2, H0667: 2, H0171: 1, H0686: 1, S0212: 1, H0125: 1, S0420: 1, S0358: 1, S0376: 1, S0360: 1, S0046: 1, H0393: 1, H0333: 1, H0575: 1, H0581: 1, H0309: 1, H0046: 1, H0567: 1, H0188: 1, H0428: 1, H0553: 1, H0135: 1,			

HOGCA79	1022627	579	210 - 635	2754	Thr-69 to Phe-77, Asp-80 to Thr-85.	H0040: 1, T0041: 1, L0369: 1, L0763: 1, L0643: 1, L0764: 1, L0773: 1, L0804: 1, L0375: 1, L0806: 1, L0776: 1, L0655: 1, L0783: 1, L0382: 1, L0666: 1, H0144: 1, H0593: 1, H0435: 1, H0659: 1, H0660: 1, H0666: 1, L0750: 1, L0755: 1, L0731: 1, L0757: 1 and H0543: 1.		
						H0547: 5, L0747: 4, L0766: 3, H0328: 2, H0551: 2, L0774: 2, H0435: 2, H0659: 2, H0436: 2, L0740: 2, L0754: 2, L0759: 2, L0596: 2, H0657: 1, H0341: 1, S0418: 1, S0360: 1, S0007: 1, H0229: 1, H0486: 1, H0013: 1, H0156: 1, H0037: 1, L0055: 1, L0455: 1, H0163: 1, H0616: 1, L0060: 1, H0560: 1, H0529: 1, L0763: 1, L0770: 1, L0764: 1, L0767: 1,		

HSKJP93	1022663	580	2 - 247	2755	Ser-3 to Gln-9, Thr-25 to Lys-40.	L0768: 1, L0775: 1, L0806: 1, L0776: 1, L0659: 1, L0783: 1, L0663: 1, L0664: 1, H0658: 1, H0670: 1, S0380: 1, H0522: 1, H0134: 1, S0392: 1, H0345: 1, L0745: 1, L0756: 1, L0777: 1, L0780: 1, L0731: 1 and H0445: 1.		
						L0777: 9, H0622: 3, L0771: 3, L0747: 3, L0752: 3, H0657: 2, L0763: 2, L0517: 2, L0666: 2, L0748: 2, L0590: 2, H0050: 1, H0188: 1, H0687: 1, H0428: 1, H0039: 1, H0031: 1, H0032: 1, H0674: 1, S0036: 1, H0652: 1, L0369: 1, L0520: 1, L0769: 1, L0765: 1, L0773: 1, L0662: 1, L0794: 1, L0803: 1, L0804: 1, L0775: 1, L0651: 1, L0655: 1, L0659: 1, L0782: 1, L0789: 1, L0665: 1, L0438: 1,		

HAZAA64	1022719	581	106 - 705	2756	Asn-58 to Thr-64, Ile-72 to Ser-78, Gly-119 to Lys-128, Thr-185 to Leu-200.	H0670: 1, H0660: 1, S0406: 1, S3014: 1, L0756: 1, L0758: 1, L0759: 1, L0595: 1, S0011: 1 and H0712: 1. H0695: 414, H0580: 44, L0777: 6, L0731: 6, H0052: 5, L0766: 5, L0747: 5, H0617: 4, H0494: 4, S0045: 3, H0083: 3, H0181: 3, H0038: 3, L0637: 3, L0779: 3, L0758: 3, H0484: 2, H0599: 2, S0049: 2, H0428: 2, L0774: 2, L0775: 2, L0518: 2, L0439: 2, L0750: 2, L0596: 2, L0588: 2, L0599: 2, L0601: 2, H0265: 1, H0556: 1, T0002: 1, S0040: 1, H0294: 1, H0341: 1, H0254: 1, H0255: 1, S0420: 1, S0444: 1, S0360: 1, H0208: 1, H0492: 1, L0623: 1, H0013: 1, S0280: 1, H0156: 1, L0021: 1, S0010: 1, H0194: 1, H0046: 1,		
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HSEBD72	1022904	582	140 - 430	2757	Thr-11 to Arg-16, Asn-78 to Asp-84.	H0200: 1, H0051: 1, H0510: 1, H0375: 1, H0266: 1, H0188: 1, S0036: 1, H0087: 1, H0412: 1, H0102: 1, T0042: 1, L0475: 1, H0130: 1, L0769: 1, L0768: 1, L0794: 1, L0651: 1, L0776: 1, L0807: 1, L0665: 1, S0374: 1, H0520: 1, H0689: 1, H0690: 1, H0659: 1, H0660: 1, H0672: 1, S0328: 1, H0522: 1, H0696: 1, S3012: 1, S0028: 1, L0749: 1, L0755: 1, L0759: 1, L0608: 1, L0604: 1, S0011: 1 and H0543: 1.	14q24.1	182600
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HDPYE27	1022911	583	380 - 1066	2758	Trp-1 to Ser-8, His-11 to Asn-16, Gln-19 to Pro-25, Gly-38 to Gly-44, Leu-54 to Arg-62, Ser-70 to Asp-78, Gln-83 to Ser-88, Thr-99 to Asn-105, Ser-123 to Val-135, Pro-143 to Arg-169, His-194 to Tyr-206.	L0521: 1, L0626: 1, L0767: 1, L0649: 1, L0774: 1, L0375: 1, L0806: 1, L0807: 1, L0517: 1, L0529: 1, L0665: 1, H0520: 1, S0126: 1, H0690: 1, H0709: 1, S0152: 1, S0044: 1, S0404: 1, H0555: 1, S0027: 1, S0028: 1, S0032: 1, H0444: 1, L0596: 1, L0605: 1, S0276: 1, H0542: 1, H0543: 1 and H0352: 1.	9q13-q21	190100, 200150, 229300, 229300, 600429, 600884, 600974, 600998, 602014
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			H0591: 1, H0040: 1, T0067: 1, H0379: 1, H0264: 1, H0488: 1, T0069: 1, T0004: 1, S0038: 1, H0641: 1, H0646: 1, S0144: 1, H0538: 1, S0210: 1, S0422: 1, S0002: 1, S0426: 1, UNKWN: 1, H0529: 1, L0763: 1, L0371: 1, L0637: 1, L0761: 1, L0630: 1, L0372: 1, L0646: 1, L0771: 1, L0773: 1, L0364: 1, L0803: 1, L0651: 1, L0806: 1, L0655: 1, L0661: 1, L0657: 1, L0526: 1, L0809: 1, L0544: 1, L0663: 1, S0148: 1, S0310: 1, L0352: 1, H0593: 1, S0126: 1, H0435: 1, H0670: 1, H0648: 1, H0539: 1, L0602: 1, H0696: 1, S0044: 1, H0555: 1, H0478: 1, L0743: 1, L0751: 1, L0745: 1, L0755: 1, H0445: 1, S0308: 1, S0394: 1,					
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HCRQL51	1022997	584	47 - 1030	2759	Ser-35 to Gly-40, Ser-103 to His-109, Tyr-151 to Gly-159, Pro-216 to Glu-224, Asn-249 to Trp-258, Pro-278 to Glu-284.	L0480: 1, L0362: 1, S0106: 1, S0192: 1, S0242: 1, H0542: 1, H0423: 1, S0424: 1 and S0446: 1. H0013: 10, H0644: 6, H0144: 6, H0615: 5, L0748: 4, L0777: 4, H0393: 3, T0114: 3, H0012: 3, H0024: 3, H0529: 3, L0438: 3, H0547: 3, L0439: 3, H0624: 2, H0170: 2, H0341: 2, L0005: 2, H0370: 2, H0050: 2, L0471: 2, H0031: 2, H0038: 2, L0750: 2, L0758: 2, H0595: 2, L0592: 2, H0171: 1, S0212: 1, S0418: 1, S0356: 1, H0619: 1, L0717: 1, S0222: 1, H0427: 1, H0036: 1, H0046: 1, H0620: 1, H0594: 1, H0266: 1, H0328: 1, L0142: 1, H0591: 1, H0616: 1, H0059: 1, H0625: 1, S0210: 1, L0768: 1, H0520: 1, H0519: 1,	7q32	180105, 190900, 222800, 246900
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HDTCC55	1023046	585	195 - 533	2760	Ser-26 to Ser-32.	1.		H0486: 1 and L0766: 1.			
HOOJQ91	1023049	586	1307 - 525	2761	Ala-2 to Thr-9.						
HCE4K28	1023227	587	238 - 840	2762	Phe-15 to Gly-29.			L0750: 6, L0766: 5, L0809: 4, L0747: 4, L0758: 4, S0354: 3, H0617: 3, L0775: 3, L0783: 3, H0690: 3, S0406: 3, L0753: 3, L0601: 3, H0255: 2, S0007: 2, H0618: 2, H0253: 2, H0309: 2, H0150: 2, H0428: 2, H0553: 2, H0494: 2, L0770: 2, L0771: 2, L0803: 2, L0774: 2, L0666: 2, S0330: 2, H0539: 2, H0134: 2, L0777: 2, L0592: 2, H0624: 1, H0686: 1, H0664: 1, S0408: 1, H0489: 1, H0580: 1, H0351: 1, S0278: 1, H0333: 1, H0559: 1, S0474: 1, H0052: 1,			

HPDVY62	1023264	588	2 - 1126	2763				H0545: 1, T0003: 1, H0124: 1, H0634: 1, H0087: 1, H0477: 1, H0412: 1, L0763: 1, L0769: 1, L0761: 1, L0767: 1, L0804: 1, L0806: 1, L0805: 1, L0659: 1, L0787: 1, L0791: 1, H0547: 1, S0126: 1, H0658: 1, H0670: 1, S0328: 1, S0380: 1, H0521: 1, H0522: 1, L0742: 1, L0744: 1, L0748: 1, L0779: 1, L0731: 1, L0759: 1, L0589: 1, L0581: 1, H0665: 1, S0276: 1 and H0352: 1.	10q26.13- q26.3	263700
								H0624: 2, H0586: 2, H0031: 2, L0748: 2, L0439: 2, H0171: 1, S0356: 1, S0376: 1, H0052: 1, H0251: 1, H0050: 1, H0014: 1, H0051: 1, H0647: 1, L0789: 1, H0144: 1, H0658: 1, H0521: 1, L0754: 1, L0752: 1, S0436: 1, S0276: 1 and S0424: 1.		

HLHDK42	1023339	589	1 - 351	2764	Asn-19 to Asp-29, Leu-34 to Gly-41.	H0024: 2 and H0596: 1.		
HLDRQ55	1023375	590	2 - 421	2765		H0081: 1, H0510: 1 and H0144: 1.		
HVVBI06	1023414	591	1449 - 646	2766		H0543: 7, H0341: 6, S0003: 5, L0740: 5, L0747: 5, H0619: 4, H0575: 4, H0318: 4, S0206: 4, L0750: 4, L0588: 4, H0542: 4, H0265: 3, S0358: 3, S0046: 3, H0486: 3, H0069: 3, S0022: 3, L0666: 3, H0556: 2, S0116: 2, S0212: 2, S0418: 2, S0376: 2, S0360: 2, S0132: 2, H0497: 2, L0471: 2, H0090: 2, H0551: 2, H0494: 2, H0633: 2, S0144: 2, H0529: 2, L0662: 2, L0655: 2, L0664: 2, H0144: 2, H0547: 2, S0152: 2, L0757: 2, H0445: 2, H0624: 1, S6024: 1, S0114: 1, S0134: 1, S0218: 1, H0650: 1, H0657: 1, H0656: 1, H0663: 1, H0662: 1,	X	

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HOCME51	1023422	592	2 - 319	2767	Glu-36 to Thr-44, His-72 to Tyr-78, Glu-82 to Tyr-88.	H0672: 1, S0380: 1, L0602: 1, H0134: 1, S0390: 1, S014: 1, S0027: 1, S0028: 1, L0748: 1, L0439: 1, L0754: 1, L0749: 1, L0756: 1, L0731: 1, H0444: 1, H0595: 1, L0595: 1, L0361: 1, L0603: 1, H0667: 1, H0422: 1 and S0424: 1.		
						H0623: 4, H0046: 3, H0581: 2, H0023: 2, H0083: 2, L0791: 2, L0438: 2, H0547: 2, H0539: 2, L0750: 2, H0583: 1, H0341: 1, H0125: 1, S0420: 1, S0356: 1, H0208: 1, S0045: 1, H0261: 1, S0222: 1, H0592: 1, H0635: 1, H0318: 1, H0052: 1, L0163: 1, H0266: 1, H0494: 1, L0475: 1, H0538: 1, L3904: 1, S0374: 1, H0660: 1, H0522: 1, H0134: 1, S0028: 1, S0206: 1, L0439: 1, L0753: 1, L0595: 1,		

HPDOP74	1023531	593	1659 - 307	2768	<p>Leu-23 to Asp-31, Gln-46 to Ile-69, Ile-120 to Lys-128, Pro-148 to Asp-154, Pro-216 to Val-223, Asn-261 to Ala-273, Gly-290 to Gln-299, Lys-305 to Tyr-312, Glu-341 to Ala-346, Pro-394 to Met-404, Ser-418 to Ser-440, Glu-442 to Gly-450.</p>	<p>H0542: 1, H0543: 1 and H0506: 1. L0591: 11, H0069: 9, H0494: 9, L0588: 7, H0543: 7, H0657: 6, H0318: 6, T0042: 6, H0547: 6, H0556: 5, L0665: 5, L0751: 5, H0423: 5, T0002: 4, H0050: 4, L0747: 4, L0779: 4, H0341: 3, H0638: 3, H0580: 3, H0393: 3, H0052: 3, H0266: 3, H0617: 3, H0616: 3, H0413: 3, H0521: 3, L0754: 3, L0596: 3, L0362: 3, H0422: 3, H0265: 2, L0470: 2, H0305: 2, H0637: 2, S0045: 2, H0370: 2, T0109: 2, H0156: 2, H0599: 2, H0575: 2, H0036: 2, H0618: 2, H0253: 2, L0483: 2, H0181: 2, H0038: 2, H0561: 2, H0646: 2, L0770: 2, L0769: 2, L0646: 2, L0521: 2, L0662: 2, L0768: 2, L0803: 2,</p>		
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HMSOH12	1023545	594	1 - 1077	2769	Lys-25 to Asp-31, His-46 to Glu-54, Ser-80 to Lys-86, Val-109 to Lys-115, Arg-143 to Met-149, Lys-193 to Arg-198, His-253 to Gly-259.	H0707: 1, L0592: 1, H0653: 1, H0665: 1, S0276: 1 and S0424: 1. L0731: 12, L0439: 10, L0747: 8, L0770: 7, L0662: 6, L0775: 5, L0663: 5, H0423: 5, L0769: 4, L0752: 4, H0422: 4, H0657: 3, H0656: 3, S0356: 3, S0360: 3, S0222: 3, H0318: 3, H0083: 3, L0764: 3, L0768: 3, L0766: 3, L0809: 3, L0665: 3, H0547: 3, H0682: 3, H0659: 3, H0672: 3, L0750: 3, L0588: 3, L0591: 3, S0007: 2, H0581: 2, H0644: 2, H0412: 2, S0002: 2, S0426: 2, L0648: 2, L0364: 2, L0774: 2, L0375: 2, L0655: 2, L0666: 2, L0664: 2, H0520: 2, H0435: 2, H0666: 2, H0651: 2, H0521: 2, S0027: 2, L0740: 2, L0755: 2, L0757: 2, L0758: 2, H0542: 2,		
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	H0171: 1, H0556: 1, H0686: 1, S0430: 1, H0650: 1, H0341: 1, S0212: 1, S0418: 1, L0717: 1, H0411: 1, H0610: 1, H0415: 1, H0486: 1, H0427: 1, H0599: 1, S0010: 1, S0346: 1, H0596: 1, H0046: 1, H0050: 1, H0012: 1, H0014: 1, H0051: 1, H0355: 1, H0266: 1, S0250: 1, L0483: 1, T0006: 1, L0055: 1, H0040: 1, H0413: 1, S0472: 1, S0210: 1, H0695: 1, L0598: 1, L0640: 1, L0638: 1, L0761: 1, L0381: 1, L0803: 1, L0650: 1, L0651: 1, L0378: 1, L0806: 1, L0653: 1, L0776: 1, L0661: 1, L0527: 1, L0659: 1, L0529: 1, H0144: 1, H0702: 1, L0438: 1, H0519: 1, H0670: 1, H0648: 1, S0328: 1, S0044: 1, H0694: 1, H0555: 1,					
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HOPIG50	1023584	595	866 - 507	2770				Thr-18 to Asn-31, Lys-39 to Ser-47, Ser-71 to His-76, Gln-113 to Lys-120.	4		
HUAB04	1023585	596	3 - 371	2771				Thr-21 to Asn-34, Lys-42 to Ser-50, Ser-74 to His-79, Gln-116 to Lys-123.	4		
HVCAA38	1023632	597	27 - 818	2772				Asn-12 to Thr-17, Gln-60 to Arg-66, Ser-71 to Asn-83, Thr-89 to Ala-96, Gln-120 to Thr-126, Glu-149 to Lys-154, Thr-213 to Ser-219, Arg-231 to Tyr-244, Trp-252 to Trp-259.	22q12.1	123620, 188826, 600850, 601669	
HIBCN87	1023837	598	1753 - 776	2773				Arg-1 to Cys-7, Val-96 to Arg-105, Glu-130 to Leu-135, Pro-207 to Arg-225, Asp-231 to Cys-251, Pro-259 to Ile-264,	22q13.1	103050, 103050, 124030, 124030, 138981, 182380,	

					Pro-294 to Pro-304, Glu-310 to Ile-316, Ser-320 to Pro-326.				H0052: 2, H0059: 2, L0662: 2, L0803: 2, L0789: 2, H0690: 2, L0748: 2, H0556: 1, S0114: 1, H0583: 1, S0376: 1, H0600: 1, H0618: 1, H0253: 1, T0010: 1, H0252: 1, H0617: 1, H0038: 1, H0100: 1, L0520: 1, L0761: 1, L0768: 1, L0766: 1, L0783: 1, L0666: 1, L0663: 1, H0547: 1, H0593: 1, H0683: 1, H0670: 1, H0648: 1, H0436: 1, L0751: 1, L0755: 1, H0445: 1 and H0352: 1.		188826, 190040, 190040, 190040
HPCOM04	1024000	599	36 - 818	2774	Arg-1 to Gln-7, Pro-18 to Leu-23, Asp-42 to Ile-47, Gln-56 to Glu-63, Glu-93 to Ile-105, Glu-132 to Leu-137, Ile-202 to Leu-208, Asn-220 to Lys-226, Asn-254 to Phe-259.				L0438: 3, L0764: 2, H0659: 2, L0754: 2, H0589: 1, H0580: 1, H0013: 1, H0622: 1, H0617: 1, T0067: 1, L0767: 1, L0775: 1, L0655: 1, L0659: 1, L0666: 1, H0648: 1, S0330: 1, H0710: 1, L0748: 1, L0740: 1, L0747: 1, L0753: 1, L0480: 1 and L0599: 1.	22q11.1	231950, 600850

HUCPU06	1024069	600	609 - 313	2775		L0766: 5, L0770: 2, L0803: 2, L0666: 2, L0747: 2, L0603: 2, H0686: 1, S0420: 1, L0662: 1, L0794: 1, L0783: 1, L0383: 1, L0809: 1, L0665: 1, H0684: 1, H0658: 1 and L0750: 1.		
HPAME01	1024332	601	564 - 1061	2776	Cys-1 to Gln-6, Val-19 to Ala-24.	L0439: 12, L0743: 5, L0747: 5, L0749: 5, L0769: 4, L0794: 4, L0731: 4, L0803: 3, L0774: 3, L0809: 3, H0254: 2, H0393: 2, H0318: 2, H0052: 2, H0188: 2, H0040: 2, L0659: 2, L0790: 2, L0438: 2, L0753: 2, H0423: 2, H0265: 1, H0685: 1, H0341: 1, H0402: 1, S0360: 1, H0580: 1, L0717: 1, H0550: 1, H0370: 1, H0333: 1, H0643: 1, H0486: 1, H0013: 1, H0250: 1, H0599: 1, H0042: 1, H0253: 1, H0327: 1, H0046: 1, H0086: 1, H0012: 1,		

									S0051: 1, H0399: 1, H0687: 1, H0286: 1, H0617: 1, H0032: 1, H0673: 1, S0036: 1, H0135: 1, H0591: 1, H0087: 1, H0100: 1, T0041: 1, H0494: 1, H0561: 1, H0130: 1, L0638: 1, L0764: 1, L0662: 1, L0804: 1, L0651: 1, L0657: 1, L0783: 1, L0666: 1, L0664: 1, L0665: 1, L0352: 1, H0547: 1, H0519: 1, H0682: 1, H0684: 1, H0521: 1, S0044: 1, H0631: 1, S0206: 1, L0754: 1, L0779: 1, L0780: 1, L0597: 1, H0543: 1, H0422: 1 and H0506: 1.				
HTTJS76	1024472	602	3 - 392	2777	Pro-1 to His-22, Lys-45 to Arg-59, Asp-77 to Pro-88, Ser-109 to Glu-119.	L0740: 15, L0754: 7, L0747: 6, L0777: 6, L0662: 5, H0539: 5, L0439: 5, L0758: 5, L0438: 4, L0748: 4, S0444: 3, H0031: 3, H0553: 3, L0770: 3, L0774: 3, L0749: 3, L0756: 3, L0755: 3,							

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HCOR157	1024556	603	230 - 1237	2778	Gly-29 to Glu-35, Met-57 to Lys-64, Ser-104 to Ser-109, Tyr-122 to Val-128, Pro-144 to Asp-153, Pro-244 to Gly-253, Arg-323 to Pro-330.	H0519: 1, S0126: 1, H0689: 1, H0658: 1, H0666: 1, H0648: 1, H0651: 1, S0328: 1, S0152: 1, S0350: 1, H0521: 1, H0696: 1, S0146: 1, L0750: 1, L0752: 1, L0759: 1, H0445: 1, L0684: 1, L0686: 1, S0434: 1, S0436: 1, L0599: 1, L0361: 1 and S0106: 1.			
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HNORG50	1024624	604	2 - 1120	2779	Ile-1 to Gln-18, Lys-69 to Gln-74, Ala-81 to Arg-86, Lys-102 to Lys-107, Glu-146 to Val-153, His-156 to Ile-161, Glu-195 to Ser-207, Asp-306 to Leu-316, Ala-318 to Gly-333, Gln-346 to Asp-352.	<p>Ile-1 to Gln-18, Lys-69 to Gln-74, Ala-81 to Arg-86, Lys-102 to Lys-107, Glu-146 to Val-153, His-156 to Ile-161, Glu-195 to Ser-207, Asp-306 to Leu-316, Ala-318 to Gly-333, Gln-346 to Asp-352.</p>	<p>H0059: 1, L0598: 1, L0520: 1, L0769: 1, L0637: 1, L0768: 1, L0803: 1, L0804: 1, L0653: 1, L0657: 1, L0383: 1, H0690: 1, H0435: 1, H0658: 1, S0330: 1, H0518: 1, S0152: 1, S0044: 1, S0027: 1, L0754: 1, L0747: 1, L0750: 1, L0731: 1, L0608: 1, L0593: 1, L0594: 1 and H0667: 1.</p>		
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